

JANUARY, 1986

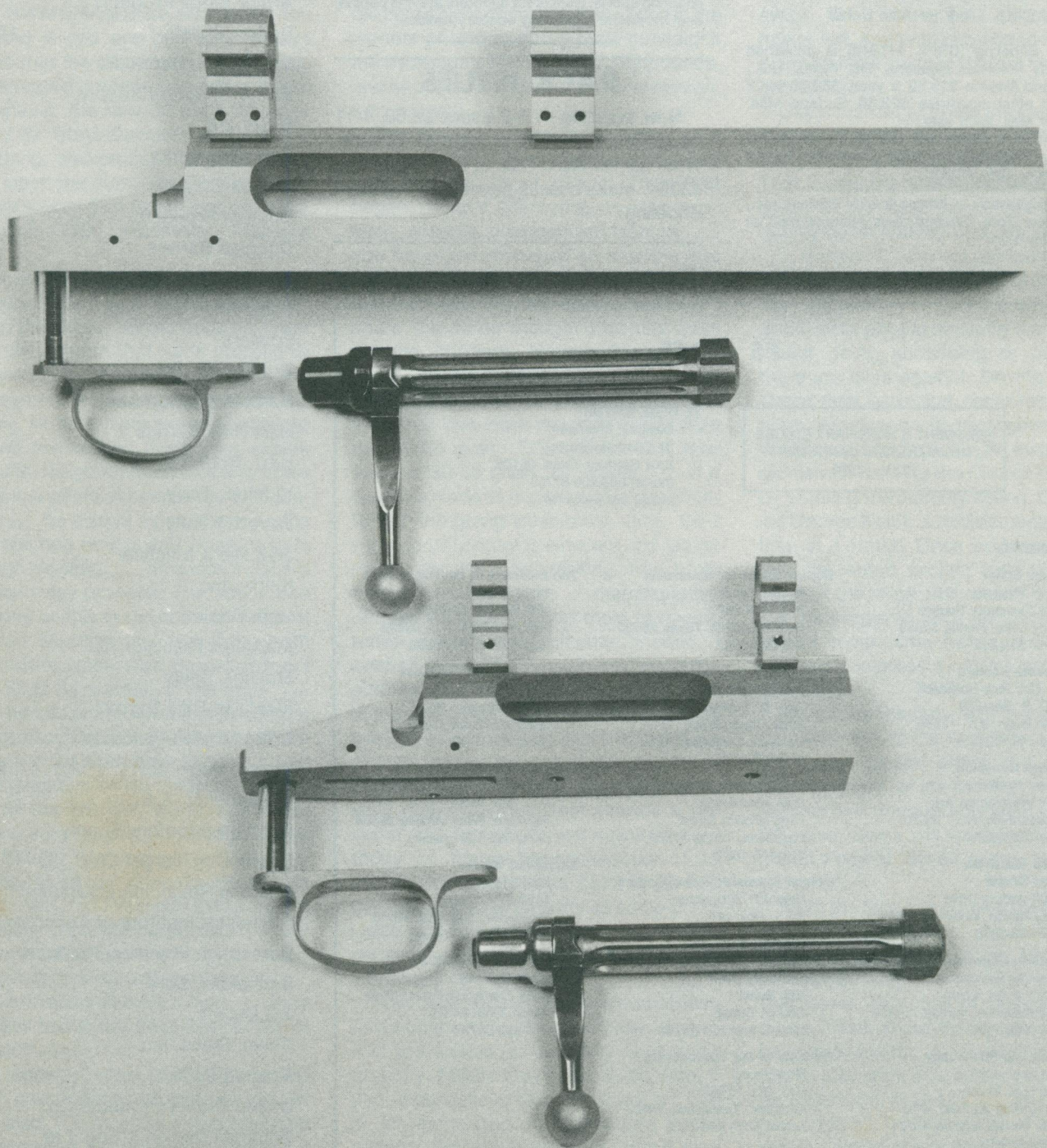
Vol. 31 — No. 9

\$2.50

Precision

SHOOTING

a magazine for shooters by shooters



PRECISION SHOOTING

PUBLISHED MONTHLY BY PRECISION SHOOTING, INC.

Editorial Offices
37 Burnham Street East Hartford, Conn. 06108
Tel. 203-289-8775

Business Offices
Stella Buchtel
5735 Sherwood Forest Drive Akron, Ohio 44319
Tel. 216-882-6877

Editor — David D. Brennan
President —
Vice-President — Dermot C. Reilly
Treasurer — Stella Buchtel
Corp. Clerk — Allie Euber

Precision Shooting (USPS 441840) is published monthly by Precision Shooting, Inc. Rates: U.S., Canada and Mexico \$16.50 a year; \$30.00 for 2 years; all other countries \$22.50 Surface Mail, \$40.00 Air Mail, each year.
POSTMASTER: Send all address changes to Precision Shooting, Inc., 5735 Sherwood Forest Drive, Akron, Ohio 44319.

Place of Publication — Elmira Quality Printers, Inc., Elmira, New York. Second-class postage paid at Elmira, New York.

NOTICE TO ADVERTISERS

PRECISION SHOOTING is printed by offset. Display copy is to be furnished by the advertiser. Advertising plates will be made from negatives, good black and white glossy prints or clear copy. Displays will be made to Advertiser's specifications. All normal composition will be set according to our own standards. Rate cards will be mailed to Advertisers on request. We reserve the right to reject advertising that we do not deem in the best interests of Precision Shooting, or which the Editor takes a dislike to.

LOADING NOTICE

The publisher, staff, and contributors to these pages respectfully advise readers that they make no representation of safety for the loads, procedures, or methods reported herein. We publish facts that were used on a given day, under a set of circumstances that are subject to dozens of variables, any one of which may cause an accident if changed or even duplicated. Please use caution at all times in the shooting sports. Benchrest shooters are fine people, and we dislike publishing obituary notices.

BACK ISSUES

Now available — 1-3 issues \$2.00, 4-11 issues \$1.50 each, 12 or more \$1.00 each.
Write James Hart, R.D. 3, Lafayette, N.Y. 13084. Make checks payable to Precision Shooting.
(work) 203-643-1157

COVER PHOTO

The Stolle Polar action, and the Panda action, available from Kelbly's, Incorporated, North Lawrence, Ohio. Two new models will shortly be added to the Kelbly line. The Teddy Model will be an 11" or 12" varmint classes model, and the Kodiak model, which will be a sealed-down Panda, with a magazine, for the hunter class. George Kelbly has a fine reputation for top-flight craftsmanship, and prompt delivery time.

Advertisers Index

Armor Metal Products	24
Berger Bullets	16, 26, 28
Broughton, Harold R.	12
Bruno Shooters Supply	13
B-Square	14
B.W. Gunworks	6
Cactus Classic	21
Custom Products	15, 24
Douglas Barrels	17
Dyna-Sports Div.	18
Fairchance Gun Club	33
Fowlers	28
Greenwalt, Jim	23
Hammonds Gun Shop	26
Hart Rifle Barrels	23
Hart, Robert W. & Son	19
Hidalgo, Tony	16
Jarrett, Kenny	18
JGS Die & Machine	25
Kelbly, Inc.	28
Lilja, Daniel	24
Marquart Precision Co.	6
Masker, Seely	22, 31
McMillan Rifle Barrels	15
MTM Molded Products	26
Pease, Bob	4, 11, 25
Pennebaker, A.E.	29
Permian Shooters Supply	7
Prairie Dog Target Club	10
Redding Reloading Equipment	27
Rochester Institute of Technology	29
Rorschach Precision Products	5
Schneider, Gary	17
SG Bullets	16
Shilen Rifles, Inc.	4
Trading Post	27
United States Products Co.	5
Whitetail Design & Eng. Ltd.	22
Wilke Machinery Co.	9

PS STAFF

PRESIDENT & HONORARY EDITOR:
DR. ALONZO H. GARCELON
1913 — 1985

YE OLDE EDITOR

David D. Brennan
37 Burnham Street
East Hartford, Conn. 06108
(home) 203-289-8775
(work) 203-643-1157

COLUMNISTS:

Technical Editor

M. H. Walker
404 Sycamore Square
Lady Lake, Florida 32659
904-753-4254

Benchrest - Feature

Lt. Col. Rick Hornbeck
R.D. 2, Box 220
Pine Bush, N.Y. 12566
914-744-3978

The Great Gunsmith

Seely Masker
261 Washington Ave.
Pleasantville, N.Y. 10570
914-769-2627

In House Gunsmith

Fred Sinclair
1200 Asbury Drive
New Haven, Indiana 46774
219-493-1858

Wildcats In Legend and Folklore

Speedy Gonzlez
1191 A So. Loop
Stephenville, Texas 76401
817-965-7941

Ballistics and Philosophy

Jon Leu
860 U.S. Victory
Highway 30 East, #10
New Haven, Indiana 46774
219-749-9810

Deputy Editor for Southwest

Robert Pease
P.O. Box 787
New Braunfels, Texas 78130
512-625-1342

Official Gunsmith on the

San Andreas Fault
Geo. M. Fullmer
2499 Mavis Street
Oakland, California 94601
415-533-4193

Official Gunsmith at the Alamo

Dale Hutcherson
1406 Wichita Street
Pasadena, Texas 77502
713-473-4881

Official Gunsmith in Suspenders

Harold R. Broughton
Rt. 1, Box 447
Big Spring, Texas 79720
(915) 394-4430

High Velocity Stuff

Allie Euber
Church Street
Orwell, Vermont 05760

Wildcats of the Confederacy

Nick Young
P.O. Box 31059
Knoxville, Tennessee 37930
(work) (615) 966-7000

The Ballistics at the O.K. Corral

Geza Nagy
436 So. 5th Avenue
Highland Park, N.J. 08904
(work) (201) 247-0236

.308 is a Beautiful Number

John Bunch
5303 Jefferson, Rt. #2
Garland, Texas 75040
(214) 530-7136

Hydraulics and Nuclear

Jim Schultz
P.O. Box 1998
Fairmont, West Virginia 26554
(304) 363-4964 (work)

Uncharted Waters

Merrill Martin
1250 67th Street
Emeryville, California 94608
(415) 652-2200 (work)

SUBSCRIPTION NOTICES

Stella Buchtel
5735 Sherwood Forest Drive
Akron, Ohio 44319
216-882-6877

EDITORIAL

"Yes, even in Hell, if a man was a man, you'd know it."

The Devil and Daniel Webster Stephen Vincent Benet

A few worthwhile things have crossed the editor's desk in recent days. The Shilen Rifles catalog, advertised in their ad in these pages, is certainly worth the modest two dollar price. Skip Gordon (address Boars Head, P.O. Box 233, Budd Lake, New Jersey 07828) has republished the *"Benchrest and Varmint Shooters Buyer Guide"*. That price also is two dollars. And if you are one who always thought that the Mannlicher carbine was a mighty good creation (the editor thinks so, anyway), the new 32 page full color catalog for Steyr-Daimler-Puch AG is a good thing, and probably a good bet to put at least one dumb idea in your head. Request it from Gun South Incorporated, P.O. Box 129, Trussville, Alabama 35173.

If our esteemed printer does not do me dirt, there should be a Harold Broughton letter in this issue. Harold ends his letter with a declaration that he is thoroughly convinced that .25 caliber is a subject that intrigues him to such a degree that he is isolating all his future experimenting to just that one caliber. From past experiences with the gentleman, I not only know that he is a gifted experimenter and gunsmith . . . he also is as stubborn as the proverbial hog on ice, and when he gets an idea in his head . . . he doesn't discard it the next day or week. The editor was pondering all this in the editorial office of *Precision Shooting* (my den, if the truth were known) when Walt Berger called. I forget what he wanted at the time . . . maybe he had not received his November issue (Stella likes to take Mr. Berger off the mailing list from time to time . . . if only to keep him on his toes) . . . maybe some of the NBRSA world wanted to hang the editor (again). Probably not the latter, though. Walt has got a stock reply to "hang the editor" phone calls now. He just tells 'em that *Precision Shooting* is a completely separate corporation, and if they want to hang the editor, go ahead and do it, and stop talking about it . . . editors are relatively easy to find . . . they found this one in the Daily Double line at Belmont Park.

Well, anyway, when Walt had stopped hootin' and hollerin' (Borden is always yelling also . . . must be a characteristic of Association Presidents), I thought I might run this Broughton idea by him.

What the heck, . . . might even take his mind off whatever he was mad at, at the time. So I ran it up the flagpole. Twenty five caliber match barrels would be no problem; all our leading barrel-makers are already tooled up for that bore size. So that brings us to bullets. And Walt Berger is a top-flight bullet maker. (I wouldn't tell him that . . . just give him a big head . . . but he is). Dammit, how come you're not turning out a match grade .25 caliber bullet? Huh? Broughton would have been proud of me . . . I mean, I really lit into the fellow. Put him right back on his heels Harold could have done no better. Such is the wonder of telephones. Harold outweighs me by about a hundred and fifty pounds, and he could have done it better in person, I do suspect.

There was a pause from Walt . . . a real long pause. Even forgot what he had been shouting about. (Good). Then Walt began. "That's interesting. In your bumbling, infantile, disorganized fashion . . . you have just managed to stumble into the area that I have been busting my posterior on over the last several months. I share the same thought that has been running through Harold Broughton's mind . . . we're shooting 65-69 grain 6 MM bullets these days, because we believe that they buck the wind better than the 52-53 grain .224 bullets. But how about a 80-85 grain .257 bullet . . . if it could be made to match quality specifications? Intriguing possibility, that. So I went to J4 Jackets, who are the jacket source for my bullet making. And I told them about My Dream . . . match quality, .25 caliber bullets. I told them in ringing tones, I rent my garments, I cried, I sobbed, I carried on . . . it was one of the greatest speeches I ever made . . . and at the end when I looked around . . . they were all asleep. I finally woke up a couple of them, and when I asked why the lack of interest, they said . . . "look, Walt . . . we'll make anything that there's a demand for. And, until you come in here today . . . there's been no mention of .25 caliber. Walt, we love ya, but this .25 caliber idea of your is as nutty as some of the ideas that this guy Brennan, out in Connecticut, come up with." Then they all went back to sleep.

Walt once again woke up a few of them. And continued to plead his case. People that are woken up suddenly tend to be grouchy. Finally they said, "look, Walt, if you really believe this . . . there are five or six authorized J4 distributors in the country. Get them together, and if they agree that they want .25 caliber J4 jack-

ets . . . put up \$2700. That's the cost of the tooling. We'll then turn out your screwy idea .25 caliber jackets." Then they went back to sleep.

Walt went back to Phoenix, to ponder all this in his heart. (Biblical phrase; I admit it). Jackets were half the battle. Next we have to have match grade bullet making dies. There are maybe a couple of makers of top level bullet making dies in this country still active. I mean, die makers that know a quality die from sheep doo. (Like that analogy? I heard it at Dunham's Bay). Walt called up one of them, and told him about His Dream. The guy is back-ordered over a year with .224, .243, and .308 dies. The fellow told Walt to go away. That leaves just about one-die maker left, and Walt is trying to find a day when he feels eloquent before he calls the gentleman.

Okay, men let's review the status of the matter. Barrels, we've got. Jackets, we can get . . . with a little coin of the realm. That leaves the question of where are we going to get Walt Berger some match-quality bullet making dies. By fair means . . . or foul . . . I'm not particular neither should you be. Blackmail is not at all out of the question . . . but we would need good, clear photos showing the bullet die maker doing something or other that there are laws against. Driving over the speed limit lacks the necessary pizzazz. Mere intoxication is too commonplace. What we're looking for is, for instance, the gentleman robbing the Church poor-box. Or stealing the Nativity scene. Or changing George Kelbly's powder measure setting, at a match. Once we have the photos, the entire project falls nicely into place. If the fellow still refuses to cooperate, be prepared for a surprise with the March cover. One hates to abuse the power of the press. Only in a good cause, certainly.

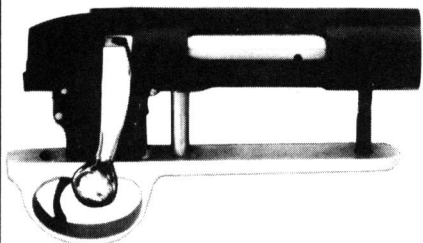
We'll drive the new, .257 bore size bullets with one of the two new, upcoming Palmisano cases; either the inch and three quarters, or the two inch version. TJ Jackson will undoubtedly want to use the BR case. Some will want to try the proposed Federal .30-30 cases, with small primers.

Men, the time has come to bear down a tad. We need a set of .25 caliber bullet making dies for Walt Berger. Do not send money (although money is always a gift that never gets out of fashion). Think mean. Think about the injustice we daily have to live with . . . no .257 match bullets to play with. Yes indeed, think mean. As Hitler said, in 1943 . . . "no more nice guy Adolph". Surely you have an embarrassing photo of a bullet die maker some where around the house. Please look.



SHILEN

First Choice of Competitive Shooters



DGA Single Shot Actions
for HV Benchrest, Silhouette and super accurate varmint/small game rifles **3 lb.**

DGA/BP Single Shot Actions
for LV and SP benchrest rifles, and Silhouette pistols **2 lb. 4 oz.**

DGA/BP-S Single Shot Actions
as above, but even shorter and lighter **1 lb. 15 oz.**

TRIGGER

The fully adjustable Shilen Competition Trigger is specified by shooters who insist upon trouble-free and consistent performance. Equally important, the Shilen Competition Trigger is recommended by the craftsmen who build winners. It is competitively priced — and readily available from factory inventory!

BARRELS

Shilen Select Match Grade barrels enjoy a world-wide reputation for quality. As a result they are the first choice of some of the most successful competitive shooters in the world.

Caliber	Available Twists
.22	14 1nd 15"
6mm	12, 13" and 14
.30	12 and 14

IMPORTANT: NO SELECT MATCH GRADE BARREL LEAVES OUR FACTORY UNTIL IT HAS ED SHILEN'S PERSONAL OK.

Information on Shilen Rifles products for competitive shooters is available, no charge. Specify "Competition Data Sheet" when you call or write.

All Shilen products and services are described and explained in our 16 page catalog, available for \$2.00.

SHILEN RIFLES, INC.

205 Metro Park Blvd. • Ennis, Texas 75119
(214) 875-5318 • new offerings

HUNTER RIFLE TWISTS

by Marcy Lyons

Hunter rifle shooters generally shoot the 6mm minimum capacity case (45.5 grains) or standard .308 Winchester with 1-14 twist barrels. It is commonly accepted that the slower twist barrels give better accuracy. The 6mms are therefore limited to custom 70 grain bullets at approximately 3200 fps to 3300 fps and the 308s to 168 grain bullets at approximately 2500 fps for best accuracy in these 1-14 twist barrels.

The above statement is borne out in two articles on rifle twists. The first article appeared in "Speer Manual for Reloading Ammunition, No. 6" (out of print) by Dr. Edgar L. Eichhorn of Burroughs Corporation on page 71, titled "Optimum Twists for High-Powered Rifles," hereinafter referred to as the "Eichhorn Twist Table". The second article appeared in the "Rifle Magazine" Issue No. 25, January-February 1973 by Les Bowman at page 12, "Let's Get Technical," with an "Optimum Rifling Twist Table" on the next page referred to as the "Rifle Twist Table." The Eichhorn Twists are for flat based bullets but a close comparison is found with boat-tail bullets. Both charts show that the optimum velocity for the 308 168gr bullet is a 1-14 twist barrel at approximately 2400 fps. Competition and experience has shown that optimum accuracy is at a slightly higher velocity but still within the range of this twist. I have found out the hard way that regardless of what capacity case you use in .308 caliber you must attain a velocity of approximately 2500 fps with the 168g bullet in a 1-14 twist barrel in order to get optimum accuracy.

It is simply amazing that the .308 Winchester is as accurate as it is in a light hunter rifle. Although the 1985 Hunter Nationals was won with a 6mm the next eight places were won by either a 308 Winchester or a variation or close relative in that caliber.

Much of this success I attribute to a perfect bullet (the Sierra 308 168g target bullet) matched with the right twist (1-14) at

approximately 2500 fps. I have seen some shooters go to the 7-08 and try to get them to shoot. The 7mm Sierra 150 grain boat-tail bullet is often used in a 1-10 twist barrel at about 2500 fps. Both twist tables show that this is the right combination but the faster twist barrel does not seem to give optimum accuracy. I applied the 7mm Sierra 120 grain flat based bullet in a 1-14 twist barrel to these twist tables but the optimum velocity would theoretically be at about 2700 fps. The recoil would be considerably less but wind drift would be much more than with the .308 loads.

I feel that we need more experimentation in the 7mm with different weight bullets in slower twist barrels at varying velocity levels before it will become competitive in hunter rifle competition.

The current fad in hunter rifle competition is to use the minimum capacity case in .308 for hunter rifle competition, as a 308X1.75, 30X44, etc. However, if you are going to use the 168 grain bullet you must get the velocity up to the 2500 fps level with this bullet in a 1-14 twist barrel or it will not shoot. If you do shoot it at this level the excessive pressure will soon cause problems with sticking cases and resulting loss of accuracy.

The recoil is almost as much as the standard .308. If you insist on using this short case then you should use lighter bullets. You should also use a custom reamer with a tight back end and form your cases from .22-250, 250 Savage or 300 Savage brass which has a thinner case wall thickness and smaller back end. Most .308 and .30-06 brass is too thick. When you push the shoulder back you will have an excessively thick shoulder which will soon be giving you problems as occurred with the 6BR.

Most shooters using the short case use the lighter bullets of 110 grains to 130 grains. Speedy Gonzales and Cauteruccio (GTB bullets) make excellent short bullets in .308. I applied this to the Rifle Twist Table and found that the optimum twist for the 110 grain bullet at 3100 fps is a 1-20 twist and the 125 or 130 grain bullets at 2800 fps is a 1-16 twist. The Eichhorn Twist Table indicates 1-21 and 1-17, respectively.

At the 1985 Hunter Nationals it was called to my attention by both the scorer and target crew that bullets from a certain competitor were "key-holing". I checked the card listing his equipment and loads and found that he was shooting these 110 grain bullets in a short 308 case with a 1-14 twist barrel.

From this I can only surmise that based

VOLUME III of THE BOB PEASE COLLECTION,

a spiral bound supplement on accuracy rifle shooting now joins the popular Volumes I & II to help guide you on bedding, accurizing, case preparation, neck turning, rifle preparation, scoping, loading and shooting techniques for rifle accuracy. Volume III is \$6.95 1st class. Volume I is \$5.95 1st class, Volume II is \$6.95 1st class or all THREE booklets for \$18.00 by book rate mail. Bob Pease, POB 787X, New Braunfels, TX 78131.

upon the above twist tables and the instability of the 110 grain bullet that the hunter rifle competitor would be better off shooting the 125 or 130 grain bullets at about 2800 fps in a 1-16 twist barrel. However, are we willing to have less recoil but more bullet drift as the Sierra Wind Drift charts show a marked advantage of the 168 grain bullet at 2500 fps over the 125 grain bullet at 2800 fps and it is no contest with the 110 grain bullet at 3100 fps?

Many of the top competitors in hunter rifle competition will not use the minimum capacity .308 cases with lighter bullets as they feel that the Sierra 168 grain International boat-tail bullet is the best bullet available in .308 caliber. Also these Sierra bullets can still be purchased from discount sources at approximately \$10.00 a box as opposed to a price tag of \$15.00 to \$18.00 a box for custom .308 bullets.

Most .308 shooters use approximately 41 grains of Hodgdon 4895 powder in order to reach the 2500 fps velocity level with these 168 grain bullets. However, this leaves empty space in the case. Many shooters are going to approximately 46 grains of DuPont 4350 or 47 grains of Hodgdon 380 in order to get a higher loading density in the .308 Winchester. A partial solution to this problem is to go to a slightly reduced capacity case which is better designed with a sharper shoulder.

Larry Smart of Union, Missouri (the 1984 Hunter Rifle Champion) has designed just such a case. i.e., the 30 HBR Smart. A .308 Winchester case is placed in the forming die and the shoulder pushed back and then fireformed to a 30 degree shoulder. The length of the case remains the same but it has a longer neck. It has two grains less capacity than the standard 308. The four shooters using it at the 1985 Hunter Nationals placed 2nd, 3rd, 4th and 8th. It seems to shoot best with about 38 to 39 grains of Hodgdon 4895 with the 168g bullet.

I personally feel that the Sierra 168 grain bullet is as good or better than any custom bullet made in whatever size or caliber. When the military switched from their

172 grain boat-tail bullet to the Sierra 168 grain bullet accuracy increased tremendously.

I have a comparator or indicator micrometer with a plunger which is used in industry to check numerous machined parts. I use it as a bullet spinner and I have found that very seldom will these Sierra 168g bullets spin out more than 0.0002 and often the good lots will spin out 0.0001 or less. However, as much as I have bragged on these bullets, I am amazed that they shoot as well as they do considering how they are made and assembled.

In 1983 I purchased 5000 of these bullets in one lot (Lot No. 110916). I knew that the ogive to base length of these bullets in different lots were different. I installed my Davidson ogive checker on my vernier caliper and started measuring bullets in this lot. I soon found that I had three different lengths in the same lot.

The short lot, which made up about 45% of the bullets, was 0.025 shorter than the long lot (about 35% of the total). The middle lot was approximately 0.010 shorter than the long lot. I used the middle lot for fireforming and used the short lot in competition. They gave me excellent accuracy. When I ran out of the short lot, I went to the long lot. The accuracy with this lot did not seem to be as good as the short lot.

One day I picked up my indicator mike and began to check these bullets. The few bullets I had left of the short lot are some of the best that I have ever checked. Not only did they spin out less than 0.0001 but there was also no variations in diameter

between each bullet in this short lot.

This was also true of the middle lot. However, I got quite a surprise when I checked out my long lot. Each bullet in this long lot spun out not more than 0.0002 but the reading between other bullets in this lot was often 0.0004. I soon realized that I had two lots within the long lot. Almost half measured at 0.3083-0.3085 and the other half measured 0.3085-.3087.

I do not know if this affects accuracy but I feel that I had four different lots of bullets made in four different dies in the same "so called" designated lot of bullets. I also loaded bullets from these four lots in an empty case and checked the loaded case with my Davidson ogive checker. Again I was surprised to note that there was little difference in the length (about 0.002). Even though there is a marked difference in the length of the ogive to base of the different lots, it does not seem to affect the seating depth. The different dies are probably close to the same as far as the configuration of the ogive.

Considering the excellent accuracy of these Sierra bullets, I may be nitpicking, but I have noted that custom bullets do not have this variation. I strongly recommend that 308 shooters check their Sierra 168 grain bullets for these variations.

In summary I feel that the standard (or near standard) 308 Winchester with the Sierra 168 grain bullet at about 2500 fps in a 1-14 twist barrel is the best combination if you intend to use a .308 in hunter rifle competition.

RORSCHACH CARBIDE DIES

\$1.00 for brochure

Rorschach Precision Products
Box 151613
Irving, Tx. 75015

Whether you're hunting or shooting competitively, tighter groups are the name of the game. All the Pro's will tell you that the quickest way to tighten your groups is with a cleaner bore. And that's where GOLD MEDALLION™ comes in. NON-TOXIC, safe and effective for any bore.

GOLD MEDALLION lifts out all fouling—in under 60 seconds—better than any bore cleaner



TIGHTER GROUPS IN UNDER 60 SEC.



made; and that'll help you get maximum accuracy out of any firearm. Call 1-800-851-3783 for the name of your nearest GOLD MEDALLION dealer. GOLD MEDALLION. Used by the best. Now available to you.

Guaranteed by
**UNITED STATES
PRODUCTS CO.**
Call toll-free:
1-800-851-3783.
In PA,
1-800-
851-3782.



GOLD MEDALLION™

John Bunch

Dave,

I am sure you have received a lot of comments on the barrel twist for the heavy 22 Cal bullets, case wall thickness, and head spacing of rimmed cases. For what is worth (maybe 2 cents), I would like to add mine.

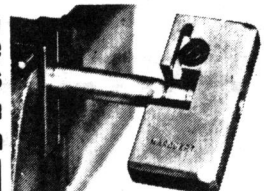
First, I am 100% in agreement with T.J. Jackson that a 14 or even 15 twist will stabilize the 65-70 gn bullets now available. I have barreled up many 220 swifts and 22-250 for varmint hunters who used 63 gn Sierra bullets. I for many years shot a 220 with 63 gn bullets and had Sisk of Iowa Park, TX, make me some 65 gn bullets. Both shot well with no signs of tipping. One thing has to be remembered, you have to have a velocity close to 3500 f.p.s. This velocity leaves out the 222's and PPC since case capacity will not give these velocities.

Next, I also agree with T.J. that perfect necks are the key to zero type groups. Fact, at a match many years ago (prior to all neck turning - tight necks, etc.), the late Apache Jack Williams came to a match and forgot his cases or something of that nature. The day prior to the match, a lot of us were shooting, selecting cases, throwing away the bad ones. Jack picked up our discards. Guess who was the big winner next day - 'nuf said.

Head spacing on the rim of rimmed cases - lots of smoke, but just from fanning a fire that has been smoldering for many years. I have a model 54 Winchester in Cal 30/30 that is head spaced on the rim almost the same as published drawing in P.S. Exception is that it has about .040 cut for claw type extractor, but full rim contact .042+ versus the .021 for the one shown. Maybe some are too young to remember. My model 54 was built in 1928 (so stamped by Winchester). So nothing really new, though I have not fitted a 30/30 barrel to a model 54 in 25-30 years.

One last comment on the 30/30 brass with the small primer. Wish we would have gone for the 225 Winchester case to save work of altering bolt faces, or turning rims, and cutting extractor grooves.

**Turn
case
necks
uniform
within
.0001**



with this Marquart Neck Turning Tool — pilot diameters from .17 to .30 caliber. We specialize in rebarreling and conversions — and C/T-RIFLED barrels, 7mm to .45 caliber. Marquart Precision Co.: Box 1740; Prescott, AZ 86302; (602) 445-5646

MERRILL MARTIN

Dear Mr. Martin,

Your letters and articles in P.S. are great. By all means, please keep on writing for them! Unfortunately, your articles have given rise to a lot of questions in my mind, and I have finally decided to sit down, take pen in hand, and see if you will be kind enough to reply to my questions.

Q.) Can you give me the specs for your 30-30 reamer, please. I've been experimenting with a .30 Herret reamer, but I believe that the neck and throat are too generous for target work.

A.) My .30-30 reamer came through George Fullmer, who is in possession of it, and who has all the specs.

Q.) when you cut the 30-30 x 1.5 chamber, how do you cut the recess for the rim? Perhaps with a separate cutting tool, in a separate operation, on the lathe?

A.) I leave the gunsmithing details to George Fullmer; I pay him to know stuff such as this.

Q.) Which NEI flat base mold do you use?

A.) For 200 yards I use the NEI 169 .308 plain base bullet, which casts approximately 190 grains. For 100 and 200 yard shooting, I use the NEI 182 .308 plain base target bullet.

Q.) What do you do with the Ruger #1 trigger, and slow lock time? I do my own gunsmithing, but must confess an unfamiliarity with fine tuning the Ruger #1.

A.) I personally like the Ruger trigger, and can stone and adjust it to a very reliable one pound let-off. Regarding the so-called slow lock time, I take exception to popular opinion (Editor: This is called an unpopular opinion . . . the editor also has been known to have unpopular opinions). One of the finest off-hand rifles that I know of is the old M1 .30-06 match rifle . . . and I don't know of a rifle in captivity which has a slower lock time. Few big bore match shooters will disagree. So why the big deal about lock time? From the bench you don't have a moving target, such as you find yourself faced with in the offhand position . . . so what does lock time matter? (Editor: yep, that should be an unpopular opinion all right.)

Q.) Who sells the Miller-DeHaas action? Is it that much better than the Ruger?

A.) The action is made by C-D Miller Guns, St. Onge, South Dakota 57779, phone (605) 578-1790. Yes, I think it is the best. It is expensive, in the \$750.00 range. You get what you pay for in life . . . well, in rifle actions, anyway.

Q.) What should I look for in a rifle action?

A.) If you want to evaluate a rifle action,

just dry fire it from the bench with a 24x or 36x scope on top, and observe the cross-hairs jump! Pick the rifle and action that has the least jump.

Q.) You relate that you had no leading at 1950 f.p.s. with a flat base bullet? Were the bullets treated any differently than those described in your first article in P.S.?

A.) The only difference in the bullets used for the 1950 f.p.s. test was a higher hardness; about BHN 27.

Q.) How do you determine what size to size your bullets to?

A.) Bullet size doesn't seem to be too critical when using wads behind them to obturate or gas seal. Size of the nose sections is critical where it must ride on the lands, and here the diameter must be from .001 to .003 over bore diameter. I have been sizing the base from .001 to .002 over groove diameter, or .3095" average. Far more important is the squareness of the base, and trueness of the sized bullet. You MUST push the bullet nose first through the sizing die, which also helps square up the base, from the pressure on the edges. Then, after hardening, or "as cast", push base first into the die just far enough for lubing the bottom groove. There is no way . . . repeat, no way . . . that you will have a true bullet sizing it base first into the lube die. I have spent 30 years of wasted time trying to size bullets in this fashion!

Q.) I am now set for life with bullet lube; have 77 pounds of Tarax 250, and just like you said, it works just great.

A.) I'll have Dave Brennan print your name and address, in case a few readers want to try and buy a sample amount from you. (Al Zimmermann, RR 4, Box 666, South Boston, Virginia 24592).

(Editor: I have never seen so much that is so revolutionary . . . in such a short space, before. You're just a born rebel, Martin).

Rechambering
Rebarreling

B.W. GUNWORKS
COMPLETE
BENCHREST SERVICE

Restocking — Reblueing — Reliable

BART WIEDER
358 OXFORD CIRCLE
BATH, PA. 18014
(215) 837-1984

Harold Broughton

Hi Dave,

Here is a report on the small primer 30-30 cases from Federal that were sent to me for testing.

They have been shot in both the 30 Aardvark with Speedy's 110 grain bullets, and the 240 Coyote #2.

Believe me they are an improvement in both cartridges, but a little more so in the smaller caliber. In good early morning conditions here both cartridges will shoot groups in the 1's. In the 240 Coyote there are now very few shots out that can't be explained, which I feel sure is due to more uniform ignition.

I did not check the cases for wall uniformity because I personally believe that a case formed for a tight fit in a good, round close tolerance chamber that has quite a bit of run out in the side walls is not important. This has been proven to my satisfaction a long time ago. My feeling is exactly the same as T.J. Jacksons. Neck uniformity seems to be extremely important, but not the side walls.

If a person will section a perfect case after it has been fired several times, then measure the carbon build up, as well as the brass wall thickness, you will find that it is anything but perfect itself.

Extreme wall run out certainly can change things if cases are full length resized every time they are shot with the die set down on the shell holder and the shoulder set back too far to start with. Then the case heads tend to tilt, making a situation that is not square. Personally a need to do this has to become a part of my loading procedure. If cases have been hammered that hard, my feeling is that they should be thrown away and new cases used.

I'm really proud to see Federal do this case for us and my warmest personal thanks go out to them for it. This case shoots as well for me as anything that has ever been used and the suggested name of American could not have been improved on. After all there was never a more full blooded American than the 30-30.

Benchrest shooters are going to see a lot of matches won using the various cartridges made from this case.

As soon as a reamer is delivered, my full line of experimenting is going to be done with this case and 25 cal. Yes, 25 cal. All my efforts are going this direction and some day we will see this cal shooting as well as the 22 and 6 MM's.

Thanks again Federal, you did yourself proud.

Warm person regards,
Harold Broughton

Benchrest Supplies

ACCESSORIES

Bushnell Lt. Wt. 1" Scope Rings, pair	\$ 14.51
Bushnell Prof. Bore Sighter	\$39.97
Bushnell Sentry Spotting Scope, 20X or 32X	\$123.30
Bushnell Shooting Glasses, yellow	\$ 27.50
Davidson Action Wrench	\$ 30.00
Davidson V-Type Barrel Vise	\$ 36.00
Decker Rifle Vice, Benchrest Model	\$ 38.13
Gonzalez NBRSA Belt Buckle	\$ 10.50
Bill Hall Bolt Holster	\$7.50
Hart Front Rest Standard	\$ 81.95
Hart Competition Top Kit	\$ 30.85
Hart Front Rest w/Competition Top	\$ 96.60
MTM Caseguard 50 Cartridge Boxes	\$ 2.75
MTM A 760 Shooters Accessory Box	\$ 22.42
Sinclair Competition Top for Wichita	\$ 43.50
Tuller Sand Bags	Front \$7.50 Rear \$ 12.50
Wichita Rests	Cast Iron \$ 79.95

ACTIONS & TRIGGERS

Hall Stainless Steel Std. Action	\$625.00
Hall Stainless Steel Big Action	\$733.00
Hart 2 oz. Trigger	\$ 90.26
Shilen 2 oz. Trigger	\$ 79.50

BARRELS

Hart S.S. Match Barrel	\$196.95
McMillan S.S. Match Barrel	\$197.95
Shilen S.S. Select Match Barrel, 6 Groove	\$199.50

BRASS

Sako .220 Russian (PPC) Cases	ea. \$.50
Federal .222 Nickel Match Cases, Box of 20	\$ 4.64
Federal .308, Nickel Match Cases, Box of 20	\$ 6.36

BULLETS

Earp 22 cal. 52g Match, Box of 100	\$ 10.00
Earp 6mm 65g Match, Box of 100	\$ 11.00
Metzger 22 cal. 52g Match, Box of 100	\$ 10.00
Metzger 6mm 62, 68 or 70g Match, Box of 100	\$ 11.00
Watson 22 cal. 52g Match, Box of 100	\$ 10.63
Watson 6mm 62%, 65, 68 or 70g Match, Box of 100	\$ 11.88
Sierra 22 cal. 52g HPBT, Box of 100	\$ 7.69
Sierra 30 cal. 168g International, Box of 100	\$ 12.41

BULLET MAKING

J-4 .2 cal x 705 Match Jackets	\$ 29.50
J-4 6mm x750 or 825 Match Jackets	\$ 32.50
Sierra 6mm x 740 Match Jackets	\$ 30.17
Sierra 30 x 1 150 Match Jackets	\$ 65.69
Avril Lead Wire 3/16" or 15/64" 25 lb.	\$ 29.95
MTM Plastic Bullet Boxes, 22 or 6mm	\$.45

CLEANING EQUIPMENT

Bruno Special Brass Core Bronze Brushes, 22, 6mm, 7mm or 30 cal.	dozen, \$ 8.50
Dorsey Delrin Rod Guide	\$ 9.95
Hart Patches:	
1000 - 22s	\$ 7.03
500 - 6MM	\$ 5.43
Jackson Cleaning Rod Caddy	\$ 20.00
Marksmans Choice No. 7, 4 oz. bottle	\$ 4.75
MTM Bore Guide	\$ 3.92
Parker-Hale 22/6mm 37" Rod	\$ 13.80
Parker-Hale 22/6mm 44" Rod	\$ 14.87
Parker-Hale 30 cal. 37" Rod	\$ 13.80
Parker-Hale 30 cal. 44" Rod	\$ 14.87
Parker-Hale Brush Adapter	\$ 2.15
Parker-Hale Extra Jag	\$ 1.75
Rig, + P Bolt Lug Grease	\$ 3.00
Sinclair Action Cleaning Tool	\$ 9.50
Sweets 7.62 Solvent, oz.	\$ 5.25

GUN CASES & SAFES

Alco Alum. Sgl. Rifle case 49 x 9 x 4	\$ 98.25
Gun Guard 101 Hard Case, 48 x 9 x 4	\$ 35.89
Gun Guard 202 Hard Case, 52 x 11 1/2 x 4	\$ 40.66
Gun Guard 252 Hard Case, 52 x 13 1/2 x 4	\$ 43.98
Pro-Steel Security Vaults	from \$456.00

LOADING TOOLS

Culver/Lyman Powder Measure	\$134.70
Huntington Compact Loading Press	\$ 54.95
Jones Micro Powder Measure	\$180.00
Jone Sizing Die - less bushing \$21.00	Bushing \$ 5.00
Jones Decapping Tool - less mandrel \$19.00	Mandrel \$ 6.00
Lee Auto-Prime with 2 trays	\$ 10.48
Lee Challenger (D) Frame Bench Press	\$ 29.99
Lee Shell Holders for Auto-Prime	\$ 1.74
Lyman Universal Case Trimmer w/9 Pilots	\$ 43.39
Lyman D-7 Scale	\$ 39.45
Mitutoyo 0-1" outside micrometer, tenths	\$ 48.50
Mitutoyo 0-1" ball micrometer, tenths	\$ 55.25
Mitutoyo 4" dial caliper, thousandths	\$ 47.00
Redding Benchrest Powder Measure	\$ 64.47
Redding Full Length Sizing Die (press type)	\$ 23.24
Sinclair Arbor Press	\$ 67.75
Sinclair Flash Hole Deburrer - large or small hole	\$ 11.85
Sinclair Pocket Cleaner	\$ 5.00
Sinclair Primer Pocket Uniformer	\$ 17.00
Sinclair Neck Turner, less Mandrel	\$ 29.95
Sinclair Universal (specify caliber)	\$ 8.00
Sinclair Universal Case Holder	\$ 9.00
Sinclair Drop Tube 4", 6" or 8"	\$ 6.50
Sinclair Micro Powder Measure, complete	\$152.00
Sinclair Pill Bottle Adapter, Lyman or Redding	\$ 16.80
Sinclair Case Length Trimmer, 22PPC or 6PPC	\$ 15.00
Wilson Case Trimmer - less case holder	\$ 19.31
Case Holder	\$ 3.00
Wilson Full Length Resizing Die	\$ 11.80
Wilson Bullet Seater	\$ 24.00
Wilson Neck Sizing Die - less bushing	\$ 24.00
Bushing	\$ 6.00

POWDER

Du Pont 4198, 4895, 3031, 4064, 4350 - 1 lb.	\$ 12.93
4198, 4895 - 8 lb.	\$ 99.87
Hercules Reloader 7	1 lb. \$ 11.49
Hodgdon H-4198, H-322, H-4895, H-4831	1 lb. \$ 11.56
	5 lb. \$ 54.43
Hodgdon H-335, BLC(2), H-380	1 lb. \$ 11.40
	5 lb. \$ 54.40
Winchester 748	1 lb. \$ 11.14
	8 lb. \$ 84.74

PRIMERS

Federal 205M or 210M Match Primers - 1M	\$ 15.80
Federal Standard Rifle or Pistol Primers - 1M	\$ 10.55

SCOPES

Leupold 36X	Crosshair \$291.92	Dot \$305.91
Leupold M8-6X, Compact A/O		\$152.08
Lyman 6XSL		\$186.63

STOCKS & BEDDING

H-S Precision Acu-Bed Kit	\$ 4.95
McMillan Fiberglass Stocks	\$101.50
McMillan Graphite Stocks	\$137.50
Six Unlimited Stock, Hall Pattern	\$120.00

Above items are regularly in stock for immediate delivery. Please send payment with order, and include enough for shipping charges - we refund overage. Minimum order \$10.00. FFL required for bullets, primers, cases or powder shipped out-of-state. Prices subject to change without notice. Write for our complete price list.

Dealers - send signed copy of your FFL and sales tax certificate (in Texas) for our confidential dealer price list.

PERMIAN SHOOTERS' SUPPLY

P.O. Box 6421 - Midland, Texas 79701
Phone - 915-563-4341 (In Texas)
Toll Free - 800-351-1466 (other 47 States)

RECOLLECTIONS OF AN OLD-TIMER

by

Ed Phillips

It is difficult to say just when benchrest shooting first started. Undoubtedly people like the immortal Harry Pope used some form of shooting bench in process of testing their rifles. My own introduction to this sport came in 1947 with the reading of an article in *True* magazine. The article described in a very interesting manner the pains being taken by Harvey Donaldson and several of his friends to achieve the greatest possible accuracy from a center fire rifle. The article recounted the various cartridges being worked with: 22-250, 219 Zipper, 22 Hornet, and the Lovell. At the time this article went to press, Donaldson had already done a lot of work with a shortened and blown-out Zipper. The little cartridge far outperformed any of the others. I speak, of course, of the 219 Donaldson Wasp.

Soon after this article appeared, shooters all over the country began trying to get their hands on a Wasp. Initially, the only source of such a weapon was from a gunsmith by the name of Clair Taylor, who, with his partner Don Robbins, were building heavy barrel target rifles on the Wasp chamber. Don Robbins' stocks were beautifully made, and the rifles performed so well that a new standard of rifle accuracy was set. The shooting world could now think in terms of a half-minute of angle!

Of course, during this same period the experimenters were looking into bullet uniformity, bullet shape and weight. The commercial 22 caliber bullets of that day left a lot to be desired. The two principal sources: Speer and Sisk. Both brands were pretty fair varmint bullets, but they were far from half-minute quality.

Fred Huntington came out with his two-piece bullet dies about this same time. With these dies, and Gardiner jackets, bullets far superior to the commercial variety could be made. It was not until Biehler and Astles came along with their one-piece dies and the "swaging-up principle", however, that real strides were made in shrinking group sizes. Their dies dominated the game for a number of years.

In West Texas, my home, we had a rifle club composed mainly of varmint shooters, with a few small bore types sprinkled in. The magazine article about Donaldson and company really sparked an interest within our group. As club secretary, I commenced writing letters to the various known shooters in the East, hoping to engender an interest in forming a national

association of bench rest enthusiasts. Most of the letters went unanswered, but not all. Phil Teachout of Vermont shared my feeling that a national organization would not only serve to educate shooters in the state of the art, but would benefit the game as a whole by providing input from a far greater number of shooters. Besides, one didn't *have* to live north of the Mason & Dixon line to be an accomplished shooter; although I must say that for several years that seemed to be true.

Lacking the money with which to purchase Taylor and Robbins rifles, most of us struck out on our own to build heavy barrel guns. Gregoire barrels, which graced the Taylor and Robbins jobs, were very hard to come by, so most of us went for barrels from Joe Pfeifer. Winchester Model 70's cost about \$100 in those days, which was a bunch — so we went for 98 Mausers, DCM Springfields and Enfields. A while later FN Mauser actions became available at a reasonable price, and most of us changed over to them, using a Canjar single-set trigger. All of this economy actually kept our guns from being competitive outside of our own area.

In 1950 our club held its first bench rest match. We sent out invitations to every known bench rester. Attendance was 12 shooters. Among the 12 were three from Tulsa and two from Wichita, Kansas. One of the Tulsa shooters was Barney Auston. Among the local competitors were John I. Moore and his brother, P. D. Moore. The Tulsa aggregation proceeded to wipe the rest of us out. At this match was Bill Guse, a varmint shooter from Del Rio, Texas, who showed up with a 10-pound 22/250 with Lyman Super Targetspot 20 power scope. Bill didn't scare anybody off with his shooting, but he did manage to set a record for 5-shot group at 200 yards. The record, something like 0.375", stood for several years. The odd thing about it was that on the relay with Guse, not one single group, other than his, measured less than 1.5". The range was in an abandoned caliche pit, about as undesirable place as one could imagine, what with swirling wind and unbelievable mirage. When Guse shot his group he declared he never did see his bullet holes from the firing line. I believed him; neither could I see mine.

After the match related above, John I. Moore suggested that we form a Texas Bench Rest Shooters Association. This

was well received by the local club members, and we proceeded to organize. A corporation was formed, officers elected and immediately plans were made to build a bench rest range. As financial angel to the club John I. Moore volunteered to raise all of the necessary money with which to build the range — provided that it be built at San Angelo, Texas, where he lived at the time. The fact that the range would be 125 miles from where the club members lived was a bit disappointing to the rest of us, but none of us saw fit to look a gift horse in the mouth. The offer was unanimously accepted. John I. proceeded to put the arm on various friends — believe me, he had many. In a very short while, construction commenced, and the site of the 1956 National Bench Rest Matches was ready in a couple of months. It boasted 24 wooden benches, covered firing line and a concrete slab. To us it was the ultimate range.

The Texas association duly formed, I, as Secretary, redoubled my efforts to get something going on formation of a national group. At this point, all of the correspondence was with Phil Teachout. In due time Phil got the ear of the New York and Pennsylvania shooters, and plans were made for an organizational meeting, to be held at Denver, Colorado. John I. Moore represented our area. I was unable to attend. At the meeting the country was divided into regions — not too different in boundaries from those today. Officers were elected, a charter drawn up, committees appointed and National Match schedules set up for 1954, 1955, and 1956. It was generally agreed that every other year the matches would be held in the Northeast, while on the alternate years they would be held elsewhere. Mind you, there were precious few bench rest facilities outside the Northeast at that time. It was decided that the 1954 matches, the first ever shoulder-to-shoulder National Championships, would be awarded to Custer, South Dakota. Walt Siewart, a shooter from Sheridan, Wyoming, made the bid for the matches and convinced the group that Custer would be a great place to get it all started. As matters turned out, Walt did a helluva selling job. I shot in the 1954 matches, and I'm here to tell you the shooting conditions were the worst I ever experienced. Everybody had a good time, however, and the hospitality was great.

In preparation for the matches, Custer picked out a reasonably flat piece of land,

built 50 benches and covered them with a brush arbor. They rigged moving backers, and, all in all ended up with a very acceptable range. Incidentally, at Custer it became evident that stationary backers should be used in addition to moving backers. Due to the horrendous mirage, crossfires were many, and as a result many shooters felt they had been wronged in the crossfire decisions. Bench rotation was not used at Custer. More about that later.

Prior to the 1954 matches a running controversy was going on over whether competition should be in the form of 10-shot matches or 5-shot matches. Dr. Rod Janson of Seattle and Ed McNally of New York State (Rochester, I believe) were the two more vocal participants. There was a lot of heated correspondence over the matter, all of which was made available to the various regional directors. As a director I had occasion to read all of it. The correspondence was heated enough that Dr. Pohling of Wichita, Kansas, director for the Mid-Continent Region and a psychiatrist by profession, was prompted to write a letter to Ed McNally suggesting that Ed had serious emotional problems and should seek professional help! Dr. Janson seconded the motion.

At the Custer matches were Charley, Clyde, and Bob Hart. These people had

really set bench rest shooting on its ear by coming out with a stainless steel match rifle barrel. Prior to this all match barrels had been chrome-molybdenum steel. The Harts attracted a crowd by showing their barrels and showing the first bore scope most had ever seen. They were patient enough to allow many of the shooters to inspect the bore of their own barrels, and invariably the shooter would walk away shaking his head. How could any barrel that looked like a dried-up mud flat ever shoot? There, no doubt, was some method in the Harts' madness, for the bore of their barrels were far smoother.

One other thing the Harts did was demonstrate just how difficult it is to get a barrel absolutely clean. They invited several shooters to clean their barrels as clean as they possibly could by means of brush and patches. Having done so, the shooters returned to see what came next. Clyde, I think it was, then proceeded to wet a clean patch with saliva and run it through the "clean" barrel. You wouldn't believe the amount of black on that patch.

Looking back on the matter, to me it is obvious that one of the major milestones in bench rest rifle development was the introduction of the Hart stainless barrels. The game owes that family an everlasting debt of gratitude. While there have been a

number of equally important developments in more recent years — the fiberglass stocks, glue-in, and reliable internal-adjustable scopes to name a few — it is my opinion that the stainless barrel was a major breakthrough.

To digress a bit, I mentioned at least twice that shooting conditions at Custer were some kind of bad. As witness to that, in one 200 yard match, 8 shooters out of 50 disqualified by shooting outside the border. Sam Clark, one of the better shooters of that day and time, was one of them. (Note: I was another).

Another household name, L. E. "Sam" Wilson, was very much in attendance at Custer. Even in those early days this venerable craftsman was well recognized as one of the major contributors to the accuracy game. Let us hope that more like him are forthcoming. Several of the current participants in bench rest bid fair to be classed in Sam's league.

It is a matter of history, of course, that Ed McNally won the first shoulder-to-shoulder national championship. In acceptance of the award he said, "I didn't shoot spectacularly. I didn't shoot any really good matches; I didn't shoot any real bad ones." This was the first time I recall having heard that expression. More importantly, the mark it made on me was

Continued on next page

WILKE MACHINERY CO. INC.

A FULL-LINE FULL-SERVICE MACHINERY COMPANY - NOT A POST OFFICE BOX OR AN 800 NUMBER. YOU CAN TRUST WILKE... A FAMILY OWNED COMPANY... WE KNOW MACHINERY - HOW IT WORKS & HOW TO FIX IT.

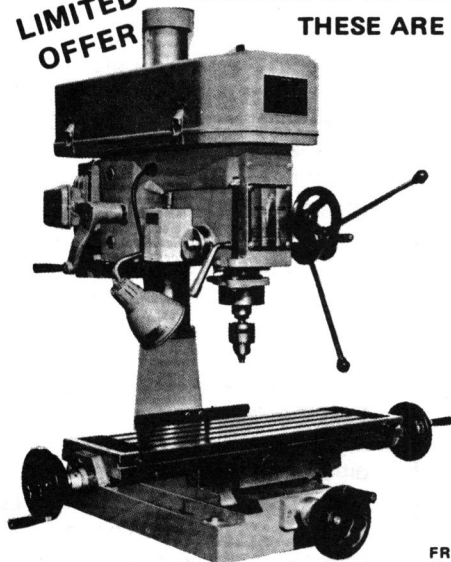
120 Derry Court • Exit 11-Interstate 83 • York, Pennsylvania 17402 • Telephone (717)846-2800

BENCH MODEL MILLING MACHINES WITH REVERSING SWITCHES MODELS RF25 & RF30

LIMITED
OFFER

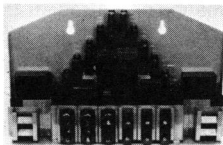
THESE ARE THE DELUXE MODELS!

- Cast iron head, base & tables
- Table locks
- Head swivels & locks
- Cranks on rack & pinion
- Adjustable gibs
- Depth control
- Chip guard
- Draw bar for R-8 collets
- Hand wheel fine down feed feature
- Quill lock
- Adjustable table stops on both X & Y axis
- Grounded plug & cord
- Capacitor type ball bearing motor
- Graduated dial in 0.001" on down feed & table feed

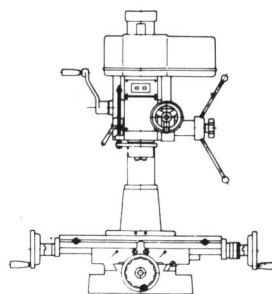
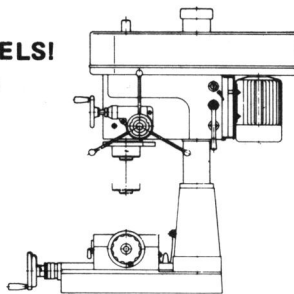


RF25 - \$795 RF30 - \$1095

F.O.B. York



FREE 52 pc. Hold Down Set - Drill Chuck - Drill Chuck Arbor - Angle Vise - Cutter - Work Light - Instructions - Touch Up Paint, etc.



SPECIFICATION	RF25	RF-30
Drilling capacity	1"	1-1/4"
Full-back cutter capacity	2-1/2"	3"
End mill capacity	1/2"	3/4"
Max. distance spindle nose to table	15-3/4"	20-1/2"
Spindle stroke	4"	5"
Working area at table	22-7/8 x 7-1/2"	28-3/4" x 8-1/4"
Right and left stroke of table	14-1/2"	15-3/4"
Forward and backward travel of table	6"	6-1/4"
Spindle center to column	8"	8-1/8"
Overall height	35-1/2"	43-1/4"
Spindle speed RPM 60 cycle	90-1920 (8 speeds)	140-2440 (12 speeds)
Motor	1 HP	2 HP
Shipping weight	440 lbs	660 lbs.

MAJOR MACHINES ADJUSTED & TEST RUN BEFORE SHIPMENT. MACHINES & MOTORS GUARANTEED FOR ONE YEAR. PRICES QUOTED F.O.B. YORK, PA & ARE SUBJECT TO CHANGE WITHOUT NOTICE. SEND \$1.00 FOR OUR MACHINERY CATALOG.

RECOLLECTIONS

Continued from page 9

that for the first time I realized that the *ag-gregate* is what counts. Prior to that I had always thought of the small group being what it was all about.

One last matter of interest concerning the Custer matches. Sam Wilson showed up with the weirdest rifle ever seen at a range. In fact today's Iron Monsters are the only thing to surpass it, in my opinion. His weapon was a barreled action trunnion-mounted on a piece of 2x4 fir lumber! This, I believe was the forerunner of the bedding block that later became so popular with the "big gun" crowd. Sam did very well with it, but, like so many others there, it took a lot more than a good weapon to win at Custer. One or two shots, then as now, can blow a potentially outstanding performance into mediocrity. That happened to Sam Wilson.

So much for Custer.

The appearance of the 222 Remington cartridge and the Model 722 Remington action on the scene put everybody into a whirl. Here was a little cartridge with very light recoil and a round receiver by then recognized to be more conducive to accuracy than the various Mauser derivatives then being used. I just had to have one, so I invested \$75 in a 722 Remington, had Barney Auston, mentioned earlier as being from Tulsa, fit a Hart barrel and chamber it to 222 Remington. The recommended powder for the deuce at that point was IMR4227. Not to argue with success, I used it. I had been building gun-stocks for several years at this point and

had become well acquainted with one Carl Peterson, of Sun Valley, California, one of the greatest craftsmen it has ever been my privilege to meet. I visited his shop one time and learned why it was that his machine inletting was so superior to that of Bishop or Herter. (Fajen, at that time, still worked for Bishop, but soon afterward went out on his own). The day I visited Carl Peterson I also met Monte Kennedy, author of a book that even today is a standard reference for aspiring stock makers and one of the more sought-after stock-makers of all times. He rightly deserves to be spoken of in the same breath as Linden, Shellhamer, Leonard Brownell and other legendary names in the gun-stocker trade. Monte, at that time, was associated with Sam May in a firm known as Apex Rifles. In due time barrels from Sam May began to appear here and there. Joe Pfeifer, the venerable barrel maker mentioned earlier, was never really excited at the business prospects surrounding the bench rest activity, and, as far as I know, he never drew a bead on that market. Sam May did, but his success was minimal. But back to the subject. I procured a laminated walnut bench rest stock from Carl Peterson. It had a 5" wide forend, a built-in wooden trigger guard and a weight of 7 or 8 pounds. My completed rifle, with a 28" Hart barrel but without scope, weighed just under 19 pounds. The trigger was the standard Remington that Barney Auston had slicked up a bit. The gun shot quite well for that day and time, one reason being that by that time I had managed to get some B&A bullets. Just prior to that I

had been shooting Sierra bullets which I very meticulously weighed and segregated. It was a whole new ball game for me. At the Texas Benchrest Matches in 1955 I held a state record for 5 shots at 100 yards for about 45 minutes. The group, as I recall was on the order of 0.375". When the next relay came up my record was wiped out with a blazing 0.348".

Also in 1955 I did a lot of playing around with electric bedding devices. Having shot some smallbore, and, in the process, did my share of playing around with the Freeland bedder, I decided to try the principle out on the bull guns. I would go to the range with the bedder on the gun, and, armed with two dial indicators and their necessary clamps, would proceed to try various degrees of upward pressure on the barrel. It was only after many hundreds of rounds that I came to the conclusion that the barrel best be free-floated. Now, how's that for inventing the wheel? How many others at the time arrived at that same conclusion — each by his own method of determination? This, I believe, marked my last effort to startle the world with a new wrinkle in rifle accuracy.

In 1956 the NBRSA National Championships were held at San Angelo, Texas. At the 1955 matches at Johnstown, P. D. Moore, mentioned earlier as the brother of John I., passed away of a heart attack. In light of this, the 1956 matches were dedicated to his memory. A very elaborate program was printed — some 50 pages, 45 of which were advertising. (Oh, I tell you, that John I. Moore was a jim dandy promoter).

Some 24 shooters showed up. Among them were Sam Clark, Paul Gottschall, Bob Hart, Clyde Hart and Wally Hart, then a young teenager and aspiring shooter, Crawford Hollidge, Walt Siewert and several other greats whom I can't recall. M. D. Waite, then a field representative of the NRA, assisted me in the stat office. I did the measuring and he the recording. It might be of interest to note that this was the first time the Sweaney measure was used. Mr. Sweaney was in attendance as a spectator and had this prototype with him. It worked beautifully, and there was not one contested score during the event.

Mr. Sweaney also had with him the prototype of his bore sighter. This created a lot of interest among the shooters. In addition, he had a collimator which allowed the removal of the last vestige of parallax from a target scope. This man was a real scientist in his field, and a likeable fellow with it.

At the San Angelo matches, benches were drawn for, as usual, and each shooter shot from that bench throughout the

Prairie Dog Target Club

**1986 NBRSA HUNTER NATIONALS
AUGUST 30, 31 & SEPTEMBER 1, 1986
PORCUPINE, SOUTH DAKOTA**

The Prairie Dog Target Club will host the 1986 NBRSA Hunter Nationals on the Labor Day week-end. The third day of the week-end will be a registered 300 yard Hunter Class Match.

PDTC is a twenty bench range located outside of Porcupine, South Dakota. The range has camping area, showers, and electrical hookups.

Porcupine, South Dakota is located just south of the South Dakota Badlands. This popular tourist area is a unique landscape and a National Park. The Mount Rushmore National Monument is within the Park. South Dakota is also prime prairie dog country and good hunting is readily available in the area.

Lunch will be available on the range.

Motels are available within an hour drive, but reservations should be made early to guarantee facilities. Also available on the range are limited sleeping facilities (10-15 people) on a first come basis.

Tourist information is readily available from the State of South Dakota.

For further information or pre-registration contact:

Don Deckert
RR
Porcupine, SD 57772
(605) 288-1919
or
Mike Prokosch
1501 E. Hwy. 96
St. Paul, MN 55110
(612) 429-6750

event. Well, at San Angelo that didn't work too well. The range is carved out of the side of a hill, leaving a bluff of from 6 to 30 feet in height immediately adjacent to benches 1 and 24. During the 2 days of shooting, prevailing conditions definitely favored bench 24 and equally penalized bench 1. Bench 1 was occupied by Sam Clark. Bench 24 was occupied by Walt Siewart. The latter proceeded to walk away with all the marbles. As a direct outcome of this occurrence a rule was formulated requiring bench rotation at all future nationals. Funny how often freak circumstances bring into focus the need for regulations that might have been overlooked but for an extreme set of conditions such as took place at San Angelo.

One other name worthy of note during the mid-50's is that of John Zink of Tulsa, Oklahoma. He was to the Tulsa area shooters what John I. Moore was to the West Texas crowd. He not only provided the land for a range but footed the entire bill for constructing it. His support did a great deal for the sport as a whole. A number of key events have taken place on the Skiatook range.

Again in reference to the late John I. Moore, I must relate an amusing incident that took place in the early 60's. Cowboy Rucker, a salty shooter if there ever was one, also made some fine bullets, it seems. At least John I. was impressed with them to the extent that he ordered 2,000 bullets. What did Cowboy do? He proceeded to repackage 2,000 Sierra bullets and send to John I. John I. never learned what had been done to him. Evidently the bullets performed pretty well.

In 1957 I was forced to drop out of bench rest activity for a 4-year period due to the pressures of business. During this period the matter of return-to-battery rests was reconciled and the sporter and varmint classes created. When I came back on the scene there were three new classes in evidence. These had been created for the sole purpose of attracting new shooters into the game — shooters who were largely turned off by the 20 pound contrivances called bench rest rifles. Initially, the Sporter Class called for a 10½# gun of 6mm caliber or greater and a scope power not to exceed 8. The initial intent was to attract shooters who could bring their factory rifles and compete. The intent was defeated, because, as is always the case, once the rules were set, people started testing them to the very edge. The Light Varmint class has seen little change since inception. The Heavy Varmint class, likewise virtually unchanged since day 1, has been the testing ground for many new and improved cartridges, not the least of which is the PPC.

Also, my attempted re-entry into bench shooting was short-lived. Again, the pressure of business. But during the brief time I was back in the thick of things I experienced two things that I remember quite vividly. First, I saw my first Shilen rifle, and I was impressed — not only by its beautiful appearance, but by its clearly superior performance. It was winning everything. I wanted one very, very badly, but I couldn't separate myself from 350 clams and stay married. Coincident with my seeing a Shilen rifle was meeting Dr. Sam Nadler of New Orleans. He was a relatively new shooter in 1961, but it was obvious that he was here to stay. He not only had good equipment; he was a very accomplished shooter. But more important than this, he had an unselfish attitude toward the game. He, like John Zink and John I. Moore, was a true benefactor. He is sorely missed. I came to know him personally and can truthfully state that he was one of the finest men I ever met.

Something occurred at the 1962 Texas State Matches that brings to mind an embarrassing incident. I was acting as Executive Officer at the matches, although at-

tempting to compete. Two competitors showed up from New Mexico with sporter rifles built on Jap Ariska actions, chambered for their own home-brewed 6MM wildcat. They were a cocky pair, proclaiming to one and all that they possessed the ultimate weapon and were about to wipe everybody out. Well, they didn't quite do that, but one of the pair *did* cause some embarrassment for yours truly. Unbeknownst to everybody, this fellow set a new record for the small group at 100 yards for the sporter class. Yes, you figured it; the moving backers had been destroyed at the range at the conclusion of the matches. This joker calls me up and says he has broken a record and wants us to submit his target and backer for verification. I would much rather have been hit in the face with a wet sock, but I didn't let on that there was a problem. What I did was to recruit a friend of mine to help me create a moving backer to match the record target. (Actually, this wasn't as bad as it sounds, for one could clearly distinguish 5 shots on the record target anyway). Well, we sent the target in, together

Continued on next page

BOB PEASE ACCURACY

P.O. Box 787-S

(AC 512) 625-1342

NEW BRAUNFELS, TEXAS 78131

BENCHREST EQUIPMENT & SUPPLIES

Adjustable Hex Torque Wrench
Benchrest Scopes and Mounts
B-Square rifle Rests & Arbors
Cauteruccio GTB Benchrest Bullets
Corbin Cleaners, Laps and Lubes
Davidson Vise, Ramps & Shrouds
Federal Match Primers & Cases
Hart Rifle Rest + 2 oz. trigger
Jones PA Dies, Tools & Clean rods
Kleinendorst Expandiron & Bolt tools
Marksmans, Sweet's and Hot Load Lube
Marquart Precision Neck Turning Tool
Redding Benchrest Micrometer Measure
Remington 40-XBBR, XB, and XC rifles
Sinclair Rod Guides and Case Tools
Tuller Glove Leather BR Sandbags
Whitetail Carbide P. Pock. Reamers
Wilson Seaters, Sizers & Trimmers

The Bob Pease Collections; spiral bound booklets.
Vol. I \$5.95, Vol. II \$6.95, **NEW** Vol. III \$6.95 - first class mail
(all three for \$18.00 prepaid bookrate)

Send 42¢ stamped Business envelope for
15 page brochure with prices & news

MON - TUE - FRI - SAT

Afternoons best to phone

RECOLLECTIONS

Continued from page 11

with the backer, and the record was allowed. That it was broken very soon afterward helped my conscience more than somewhat.

The ensuing 15 years, when I was once again out of things, saw the development of so many things in bench rest that I felt like Rip Van Winkle when I once more tried to pick it up. We had fiberglass stocks. We had glue-ins. We had reliable high-power internally adjusted scopes. We had bullet dies of unbelievable dimensional tolerance. We had bullet spinners. We had powder measures of absolutely repeatable adjustment. We had 2-ounce triggers. And on and on. Group sizes had shrunk to unbelievable proportions.

And now, if I may wax philosophical for a moment, I would like to express my feeling that it is time for the bench rest crowd to look to 25 caliber as its next field to conquer. The 6mm has proved to be no great hill to climb. Aggregates have now reached the ones. The bench rest people have shown the world that it can truly extract the ultimate out of a given caliber. To me, it is time to address the 25. Some of you are old enough to recall a brief excursion into the 25 caliber. The cartridge that comes to mind is the 250 Donaldson, a wildcat formed from the 257 Roberts. People like Homer Culver made bullet dies for 25 caliber, but he, like the other experimenters became frustrated by the lack of match quality bullet jackets. It is obvious that if precision 6mm jackets can be made, so can 25 caliber. It is merely the law of supply and demand. Were enough pressure brought to bear, the jacket makers would respond, and all at once we would have a brand new field to conquer.

Harold R. Broughton

Benchrest Gunsmith

**Harold's Custom
Gun Shop, Inc.**

4 GROOVE
STAINLESS STEEL
MATCH GRADE BARRELS
.22 and 6mm Calibers

Route #1, Box #447,
Big Spring, Texas 79720
(915) 394-4430

LOADING FOR ACCURACY

by
Geza Nagy

Developing good loading habits is a must for good accuracy. To start with you should have a seating depth gauge. This is a short stub of barrel that was cut off during chambering. As you will see later, this gauge will have several good uses as related to accuracy and safety. For best results it should be made with the same reamer and from the same barrel that you are having chambered. It should be turned down to about $\frac{3}{4}$ " in diameter and about $1\frac{1}{4}$ " long. This size is compact, easy to handle, and fits in the die box easily. The chamber reamer is run into this only to include the neck and shoulder area of the case to the junction of where the shoulder meets the sidewall.

Due to the variation of reamer sizes in the neck area of the benchrest calibers today, it is vitally important to know how much to neck turn the cases to chamber safely. Case necks must first either be expanded or necked down to the caliber that you are going to use. Insert an unfired case in the gauge. If it doesn't go in or fits tight it will have to be neck turned before firing. Neck turn one case taking slight cuts each time until the case just goes into the gauge loose. Seat a bullet in this case, again checking to see if it goes into the gauge easily. If it does, you can now measure the neck with a micrometer.

If the size of the neck in the chamber is known, this reading should be .002 less. Minimum clearance is .001 all around the neck for safety.

DIMENSIONS FOR 6MM

Chamber size 6MM Neck diameter	Bullet Diameter		Case neck thickness		Max. loaded
.265	.243	+	.010 + .010	=	.263
.243	.243	+	.0095 + .0095	=	.262
.264	.243	+	.009 + .009	=	.261
.263					

Exceeding these dimensions could wedge the case neck between the bullet and the chamber in the neck area and create a dangerous situation.

After turning the necks to get the proper clearance with the loaded round, they will have to be trimmed. If the case neck is too long, the neck will be wedged between the bullet and the leads to the rifling and chamber pressures will rise. All the cases should be checked for proper length before fire forming. For now trim only those that are too long as they will have to be trimmed again after fire forming. Some cases shorten after fire forming. Due to the different shoulder angle on the 220 Russian case, I've had them shortened as much as .025 when fire formed in my 6PPC. Other cases and other calibers may lengthen and trimming is definitely in order again.

Variation in length is detrimental to good accuracy, especially when the neck tension on the bullet is on the strong side. Load your cases with a suitable safe load to fire form them. The bullet should be seated long into rifling to hold the case head against bolt face while the case is being blown out to chamber size. Trim all the cases again to a uniform acceptable length, or about .010 under maximum. Chamber and deburr the necks.

Insert the fired case in the seating depth gauge and measure the overall length of the case in the gauge (see photo). Record this measurement. It will have several uses later. Seat a bullet in the empty case (just started) and measure loaded round in the seating depth gauge. Adjust seater stem until the loaded round measures .010 longer in the seating depth gauge than the empty case measured.

Take your seater head and measure from the top of seater head to the end of the stem (see photo). Record this measurement with the brand and type of bullet you are using. You will have to go through this same process every time you change bullet brand or weight. Keep records accordingly. This is only a starting point in load development. All your adjustments for this bullet will be made from this point. Some guns shoot better with the bullet engaging the lands and some shoot better "jumping" the bullet. Variable neck tension and the load being used will have a lot to do with this. With the measurement of the seater head known to seat a given bullet to + .010 into the lands, all you have to do to seat the same bullet deeper is to increase the length of the seater head relatively to the seating depth you want.

EXAMPLE

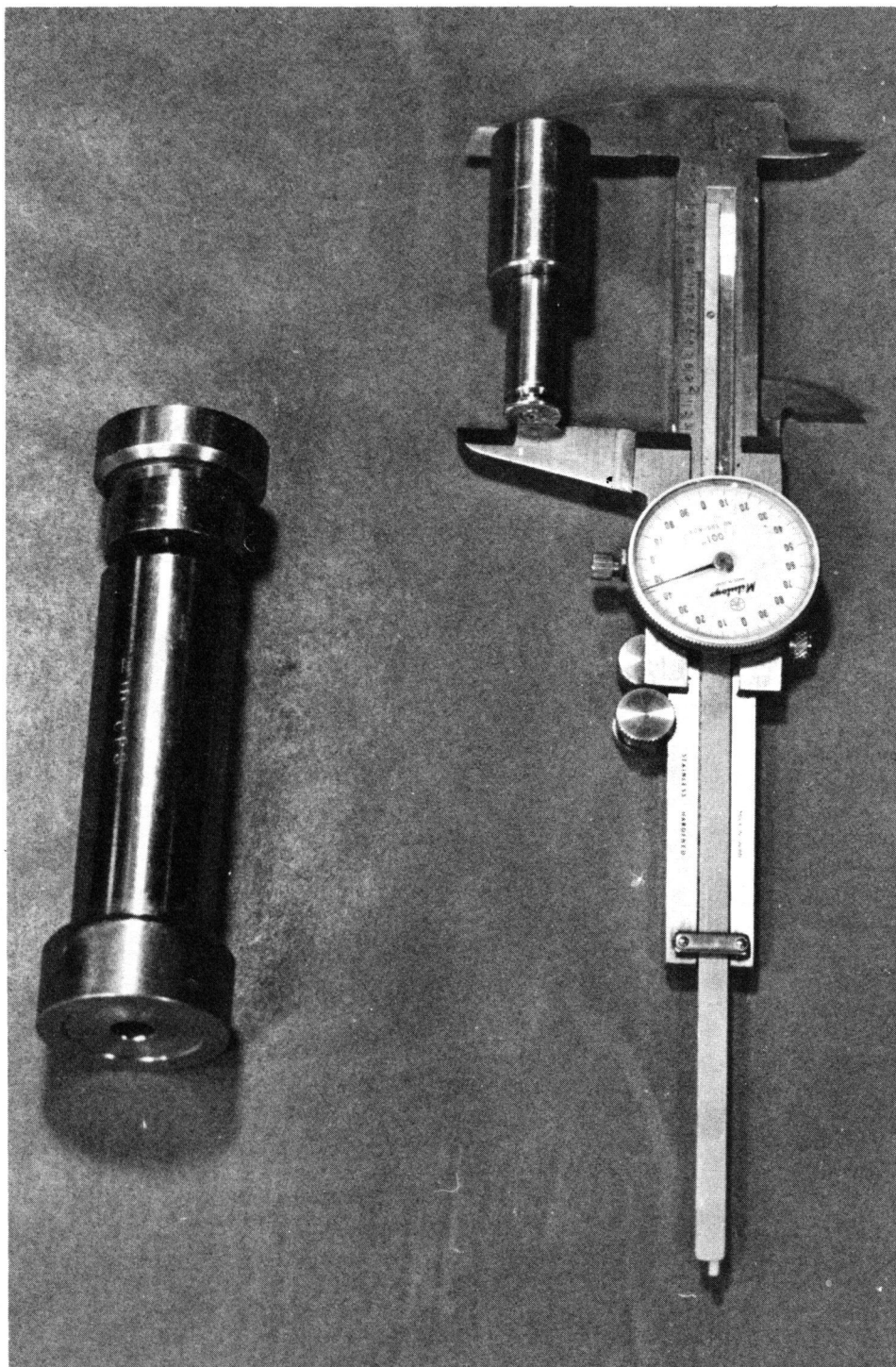
Seater head length
A. - (your measurement here)
.010 longer than A
.020 longer than A
.025 longer than A
.030 longer than A

Will seat
68 gr. Rem.
68 gr. Rem.
68 gr. Rem.
68 gr. Rem.

Seating depth
into lands + .010
just touch lands - .000
will jump - .010
will jump - .015
will jump - .020

You can add a separate column for the overall cartridge length of the loaded round measurements.

Continued on next page



Measuring overall length of case in seating depth gauge.

BRUNO SHOOTERS SUPPLY

CLEANING SUPPLIES

Bruno Custom Brass Core Brushes		
Rifle - 22,6mm,25,6,5,270,7mm,30,303,8mm		
338,35,375,458	Per Dozen	8.50
Pistol - 22,9mm,38,41,44,45	Per Dozen	8.50
Bruno Chamber Swab (PPC)		1.00
Bruno Bore Guide w/"O" ring -		
Rem, Hart, Stolle, Shilen (state caliber)		11.95
Hall, Wichita (state caliber)		14.95
Solvent Bottles LeakProof 2 oz. \$3.00	4 oz.	3.25
Cotton Flannel Patches 22 cal. per M		6.15
6mm (500) (1 1/4" square)		4.75
Shooters Choice per bottle	4 oz.	4.50
Sweets 7.62 Solvent	8 oz.	4.70
Sinclair action cleaning kit	\$9.50 Deluxe	14.50

PARKER HALE RODS

Rifle - 17,22,6mm,30 37"	\$12.99	.44"	13.99
Pistol - 22,38,45, with jag			10.15
Parker Hale Jag or Adaptor, per piece			1.50

BRUNO BULLETS

22 cal. 52 gr. Flat base, Boxed per 100		9.95
6mm Flat Base - 63,65,68,70, Boxed		
"Special" per 1000		99.00
6mm Boat Tail - 63,65,68,70, Boxed per 100		10.95

JACKETS

J-4 Jackets - 22 cal. Quality inspected		32.95
J-4 Jackets - 6mm Quality inspected		34.95
Lead Wire - pure - 50 lb. spool 3/6"		45.00

ACCESSORIES

Bruno Bolt Lube - Plastic syringe		2.95
Bushnell Lt. Wt. Scope Rings, pair		12.95
Bausch & Lomb 15x60 Spotting Scope		239.95
Davidson V Type Barrel Vise		35.95
Bruno Rear Entry Wrench (state action)		27.95
Hart Rifle Rest - Varmint		78.95
Triggers - Canjar LP - \$86.95	Hart 2 oz.	84.95
McMillan Fiberglass Stock LV,HV,Hunter		104.95

SCOPES

Leupold 24 or 36X	254.95	Dot	269.95
Leupold 6X compact with A.O.			131.95
Lyman 6X SL			165.00
Lyman 35X L.W. BR.			214.95
Uncle Mike's Scope Caps			8.55

LOADING EQUIPMENT

LOADING EQUIPMENT			
Comparator Micrometer - reads in millionths 1"			199.95
Dial Caliper 6" Stainless			44.95
Bonanza Full Length Sizer 6PPC			16.95
Davidson Seating Depth Checker			7.20
Davidson Bullet Puller - 2 Hole 11.95	3 Hole		12.95
Jones Adjustable Shoulder Die Complete			47.00
Hart Neck Turner	58.95	Deluxe	96.95
Handle for Neck Turner			6.30
Hart Internal Case Deburring Tool			10.20
Hart Primer Pocket Cleaner			6.25
Hart Primer Pocket Depth Reamer			9.90
Jones Micro Powder Measure			179.95
Lyman/Culver Powder Measure			129.95
Lee Auto Prime - 2 Trays			9.86
Lee Improved Priming Tool			5.80
Lee Shell Holder			1.75
Sinclair Powder Measure			155.00
Sinclair Neck Expander - 2 calibers			14.75
Sinclair Seat Depth Comparator 6 calibers			10.25
Sinclair Neck Turner 2 calibers			43.60
Sinclair Arbor Press			53.50

MISCELLANEOUS

Federal 205 Match - 210 Match - Primers per M		13.99
PPC Brass, each		.50
Pella Folding Ear Muffs		9.50
Brass Cleaner Cotton Wadding Polish		1.95
Wilson Straight Line Bullet Seater		25.95
Wilson Neck Size Die, Less Bushing		25.95
Wilson Bushing - Reversible		5.95
Wilson Case Trimmer		119.95

Please include payment with order. Include ample shipping, overpayments will be refunded. ADD 1.90 for COD orders. All orders will be shipped UPS. PA residents add 6% sales tax. FFL required for bullets, primers, powder, cases. Dealer price sheets available with signed copy of FFL. Prices subject to change without notice. Other products available. Write for complete price sheet to:

BRUNO SHOOTERS SUPPLY

10 - 5th St. Kelayres, Pa. 18231
(717) 929-1791

LOADING FOR ACCURACY

Continued from page 12

NECK TENSION

For proper neck tension the sizing die has to be matched to the case neck thickness. In the button system of sizing a smaller or larger button can be used to get proper neck tension. In the fixed sizing die the cases have to be turned to the proper thickness to get good uniform seating. It is important to brush the inside of the necks each time. In my experience, I found that a smooth even feel on my hand seater will shoot well. I can seat my bullets with my thumb pressure alone on the seater. With a light neck tension, the bullet run out will straighten out when it engages the lands. Not necessarily so with a strong neck tension. I have checked this on a bullet run out gauge. All that is needed is enough neck tension to hold the bullet.

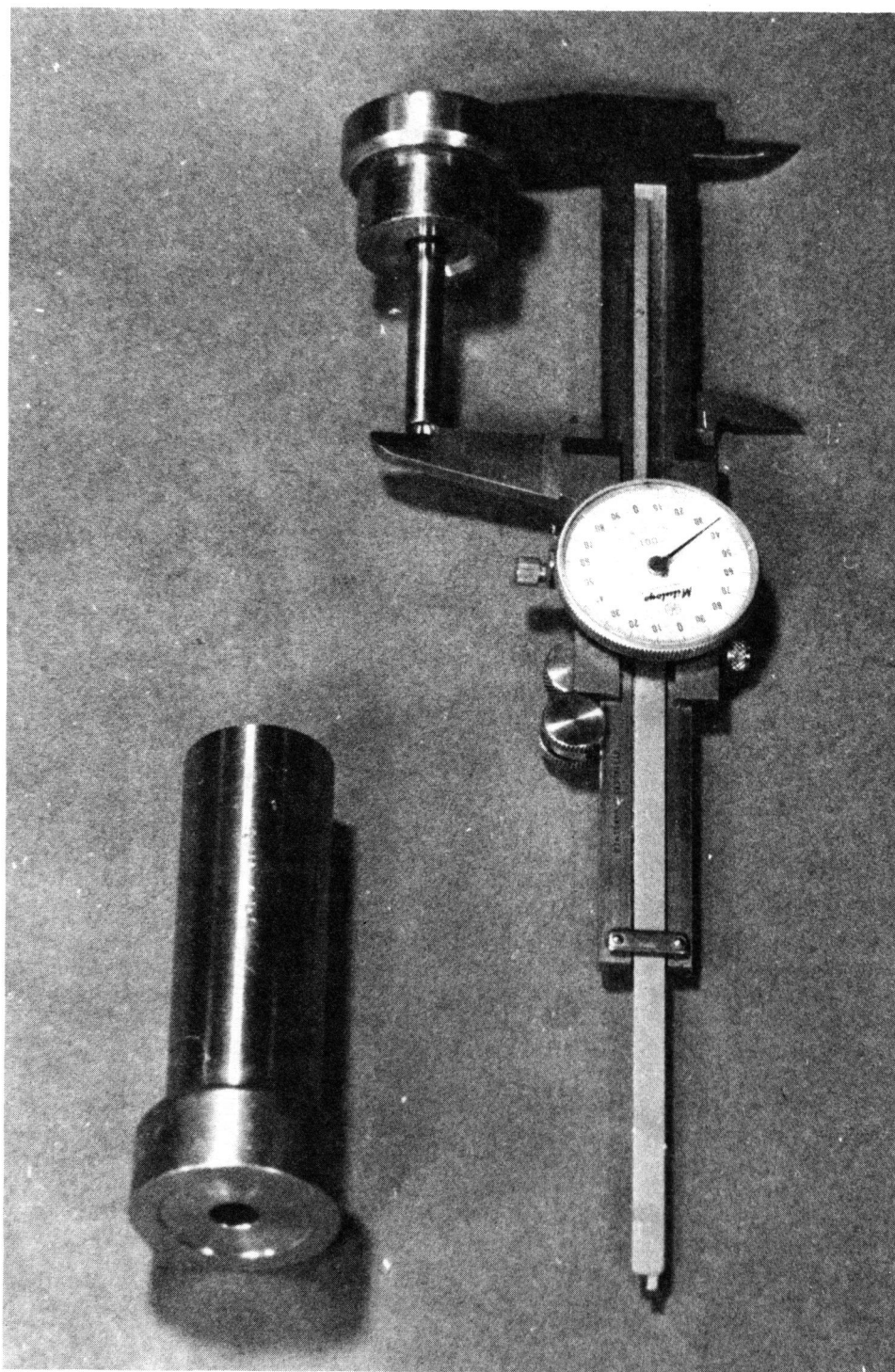
FULL LENGTH SIZING FOR ACCURACY

Although it is not as convenient to do so as it is to neck size with the hand dies the full length sized case (if properly done) can shoot just as well. Full length sizing becomes necessary when chambering and extraction get harder, or when changing a set of cases from one gun to another where headspace was different, or when neck turning case. For whatever reason, the full length sized case can shoot just as well providing they were sized to the proper depth and the resulting neck tension on the bullet is suitably smooth. First it is a good policy to take your bolt apart and check and threaded part at the rear for lack of lubricant or even rust in an older gun. Grease this with a good gun grease and also the locking lugs. Lack of lubricant at these points can cause hard chambering and extraction. The bolt should work free with no case in the chamber except for a slight resistance of the trigger cocking cam.

Insert an empty case in the chamber. If the bolt closes harder, measure the overall length of the case in the seating depth gauge (see photo). When you first fire formed the cases, you took a measurement of the cases in the gauge. This is the

point of sizing that will shoot well. The case that chambered harder will show a measurement of .002 to .005 longer than the original measurement. The full length die should be backed off one full turn and adjusted in about $\frac{1}{8}$ turn at a time until the case in the gauge reaches the original measurement. If the case still chambers hard, the problem is not the lengthening of case. Set the die to size deeper about .002 at a time checking after each pass in

the gauge and also in the chamber until it chambers easily. If you have to go too deep with this, you may have a mismatch of maximum die and minimum chamber. Measure a fired case that chambers easy at the case head and compare the reading at that point with the one that is chambering harder. If the shoulder was pushed back too far during the full length sizing, the cases will have to be re-fire formed with safe loads.



Measuring seater head for seating depth changes.

**Send for our FREE
Catalog of Gunsmith Tools
and Mounts**

S SQUARE COMPANY
BOX 11281 • FT. WORTH, TX. 76109

FINDING YOUR MAXIMUM SAFE WORKING LOAD

This method can save you a lot of unnecessary rounds fired through a barrel. The powder measure must be checked at home on a scale to determine the amount of powder that the measure will throw at different predetermined settings. Record the settings for up to .3 to .5 grain increments or have vials with weighed powder charges in them. Measure the case head with a micrometer of a case that was fired in your chamber and record this measurement. The loading should be done at the range and suitable equipment for this should be taken with you including the micrometer. You are only trying to find when your pressures are getting high for now. Accuracy load development will come later.

Bullets should be seated to touch the lands for a start. Take one case and load it about 3 grains below maximum and fire it. After each firing, measure the case head for expansion, inspect the primers for excessive flattening or cratering, and noting any difference in harder extraction. These are signs of pressure. Load this same case and increase powder .3 to .5 each time and check for pressure signs each time.

Repeat this operation until one of the pressure signs has been reached and stops there. Take a new case and load it with one full grain of powder less and fire it again. If this one checks out okay, load a couple more and fire again. If these check out okay, you can consider this the safe maximum load for that combination of components in that barrel. Go through the same process every time one of the components is changed even if it is only the lot of powder or primers or bullet.

LOAD DEVELOPMENT

Now that you have found the safe maximum pressure, you are ready for load development for accuracy. Load a few rounds a couple of grains below the safe working load and try for accuracy. Increase powder charge about a half grain at a time never exceeding the safe point. When you have found the best area in powder weight, you can try seating the bullets deeper about .005 at a time to see if this gives you better accuracy. When you have found a suitable load, write down the pertinent information of the components and seating depth used. If you go to a different bullet or different lot of powder, start from the beginning again. There can be large variations in different brand of bullets and in powder lots of the same make and number to alter pressures. It is best to buy each component in sufficient quantities to avoid having to work up a load again.

TIPS FOR GOOD ACCURACY

(1) Clean outside of case necks before sizing with extra fine (00) steel wool or Hoppe's as needed.

(2) Clean primer pockets before each loading.

(3) Clean inside case necks with nylon case neck brush or if crud builds up too much, use an oversize bore brush and clean with a twisting motion. If bullets seat firm, I prefer powdered graphite on the brush to make seating smoother.

(4) Grease your bolt locking lugs at least once before each day's firing with suitable gun grease.

(5) Oil is not suitable for the inside of bolt at the rear part. When the gun is fired, the oil will splash out and drop into trigger and cause trigger problems. Use only good gun grease here.

(6) Carry a can of lighter fluid to wash out trigger when necessary. Squirt through trigger when needed and wipe up excess that came through.

(7) If for some reason you have to remove a live round from the chamber, stand the rifle on the butt stock pointing straight up and remove slowly to avoid spilling powder in the chamber. This can happen if the bullet was seated into the lands.

(8) Carry a can of Birchwood Casey "Gun Scrubber". If powder is spilled in chamber, point barrel straight down and spray in chamber and let run through the barrel. Lighter fluid can also serve the same purpose. Squirt stream into chamber same as above. Patch out barrel. Both of these can also be used to clean bolt that was dropped into sand or dirt. Relubricate bolt if necessary.

(9) To remove a separated case neck from chamber, push an oversize or tight bore brush just past the neck and pull out toward you.

(10) If a cleaning patch gets stuck part way up the barrel, use the cleaning guide as a hammer against the handle if it cannot be pulled back out normally!

(11) Keep written records of all loading information.

McMillan Rifle Barrels

WORLD'S MOST ACCURATE STAINLESS RIFLE BARRELS

They're still **THE ONE!**

Our congratulations to Joe Kabel, of Cincinnati, Ohio, for winning the 38 shooter heavy varmint class at Fairfield, Ohio in June, and the 28 shooter heavy varmint class at Sidney, Ohio also in June.

Available in all popular calibers from .17 to .458, also .22 rimfire.

Gunsmithing Services Available. FOR PRICES AND PARTICULARS, CALL

BILL WISEMAN, U.S. International Gunsmith
PAT McMILLAN, Technical Consultant
P.O. BOX 3427, BRYAN, TX. 77805 TEL.: 409-846-3990

CUSTOM PRODUCTS

The New

ADJUSTABLE NECK SIZE DIE

*(See Rick Hornbeck review
in April issue).*

ADJUSTABLE NECK SIZE DIE

- Designed to size the length of the neck needed
- Utilizes Jones floating sizer buttons for any size neck
- Integral decapping punch
- With the aid of a special shoulder bushing, this die can be used to move the shoulder back in those sticky cases.
- P.P.C. shoulder bushings in stock, others on request. Most cartridges available, including Wildcats.

Adjustable N.S.D., less Bushing . . .	32.50
Standard Bushing	5.00
Shoulder Bushing	7.00
Die Base	7.50

(To be used for decapping. One base fits all adjustable dies.)

CUSTOM PRODUCTS

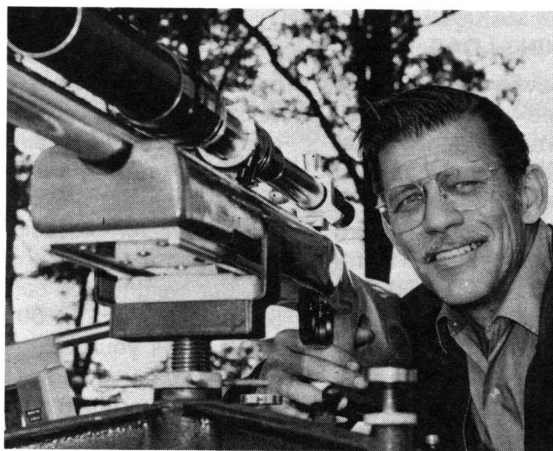
Neil A. Jones

**R.D. #1, Box 483A
Saegertown, PA 16433**

*Illustrated Catalog - \$1.00
(814) 763-2769*

Variations In Powder Load

Lt. Col. Rick Hornbeck
R.D. #2 Box 220
Pine Bush, NY 12566



Jon Leu's charts, the results of testing this past summer, and published in the November issue, gives some basic insight as to what goes on inside the powder measure during a day's match. Jon sent me copies of his charts some weeks ago and they have been given some study after making up some over-lays of his results.

Lets make sure we first understand what is causing this variation in load as indicated on Jon's charts. It's water vapor. The same stuff that causes weather, sweating, and the dew in the morning. If all the water vapor in the atmosphere were to fall in a single shower, it would cover the earth with a layer of water only one inch deep. Despite the small amount of water vapor in the air at any time, it has a tremendous effect on weather, our comfort, and it certainly is a factor in our shooting activities.

The capacity of air to hold moisture is directly proportional to it's temperature. If we had a container which would hold 1,000 grams of dry air and brought the temperature down to 40°F, the air in the container would hold 6 grams of moisture.

If we warm the container of dry air up to 110°F, our container of dry air will hold approximately 60 grams of moisture. We see that the capacity of air to hold moisture is directly proportional to it's temperature.

Relative humidity is the ration of the amount of water vapor actually present in the air relative to the maximum amount of water the air can hold at a given temperature.

And finally, another factor is dew point. Dew point is that, (again) temperature at which any given pressure and constant water vapor content at which the air will become saturated. This gives us the problem of everything being wet early in the morning as a match gets started. (Editor: this includes shooters who collapsed at midnight, during the technical discussion.) If the dew point and temperature are within 30°F and the winds are light (under three MPH) we have the problem with fog so often experienced at ranges such as Council Cup and Johnstown and which holds up the first match in the morning. When the sun comes up, and warms the air some, the fog thins out and we can

get started.

As we review Jon's charts we see a lot of zigging and zagging because of the above factors. Even in a very controlled environment, where the water vapor levels can be controlled to some degree, we experience some levels of the same kinds of zigging and zagging if we plot temperature and humidity. The chart presented herewith shows a period of time during which the water vapor present was quite constant when temperature and humidity readings were taken. With a constant water vapor level, we see these instruments indicating, again, that as temperature goes up, humidity goes down for a given level of water vapor, along with some level of bouncing up and down of our plots.

This indeed has some effects on how much our thrown powder loads change over a period of time and it often takes a very short period of time, depending how fast the temperature is changing. A cool summer morning will quickly warm up quite a bit in a very short period of time. If it was a dew covered world as the sun came up, the sun has warmed up the air

SG Bullets

by
Speedy Gonzalez

.243 CALIBER
63-68-73.5 grains \$10.00 per 100
7 MM CALIBER
100-110-120 grains ... \$15.00 per 100
.308 CALIBER
110-125-135-150-
168 grains \$15.00 per 100

Shipping charges will be invoiced

.243 and .308 calibers made in Rorschach carbide dies. 7mm caliber made in Detsch carbide dies. All bullets made using J4 jackets exclusively.

1191 A. So. Loop
Stephenville, Texas 76401
Phone (817) 965-7941

BERGER BULLETS FIRE SALE

(To be exact, if the manager doesn't reduce the inventory, the distributor is going to fire him).

January and February 1986 only

Special
T 322 POWDER

\$59.00 for 8 pounds
FFL needed

Shipping charges will be invoiced

4234 N. 63rd Avenue
Phoenix, Arizona 85033
(602) 846-5791



Adjustable Shooting Stools

Solid Oak
Cadmium Plated Hardware
\$39.50 plus postage

5% Discount to NBRSA
or IBS Life Members

Tony Hidalgo
12701 S.W. 9th Place
Davie, Florida 33325
(305) 476-7645

Quantity discount available

and the dew is gone . . . but now is in the surrounding air in the form of water vapor and thus effecting the powder load. If the powder measure is exposed to the sun rays, and is rapidly warmed, some level of sweating inside the measure often takes place, and even more water is introduced to the powder. The importance of keeping the measure at a constant temperature of seeing to it that it is warmed slowly becomes quite understandable. The same is probably also true of primers.

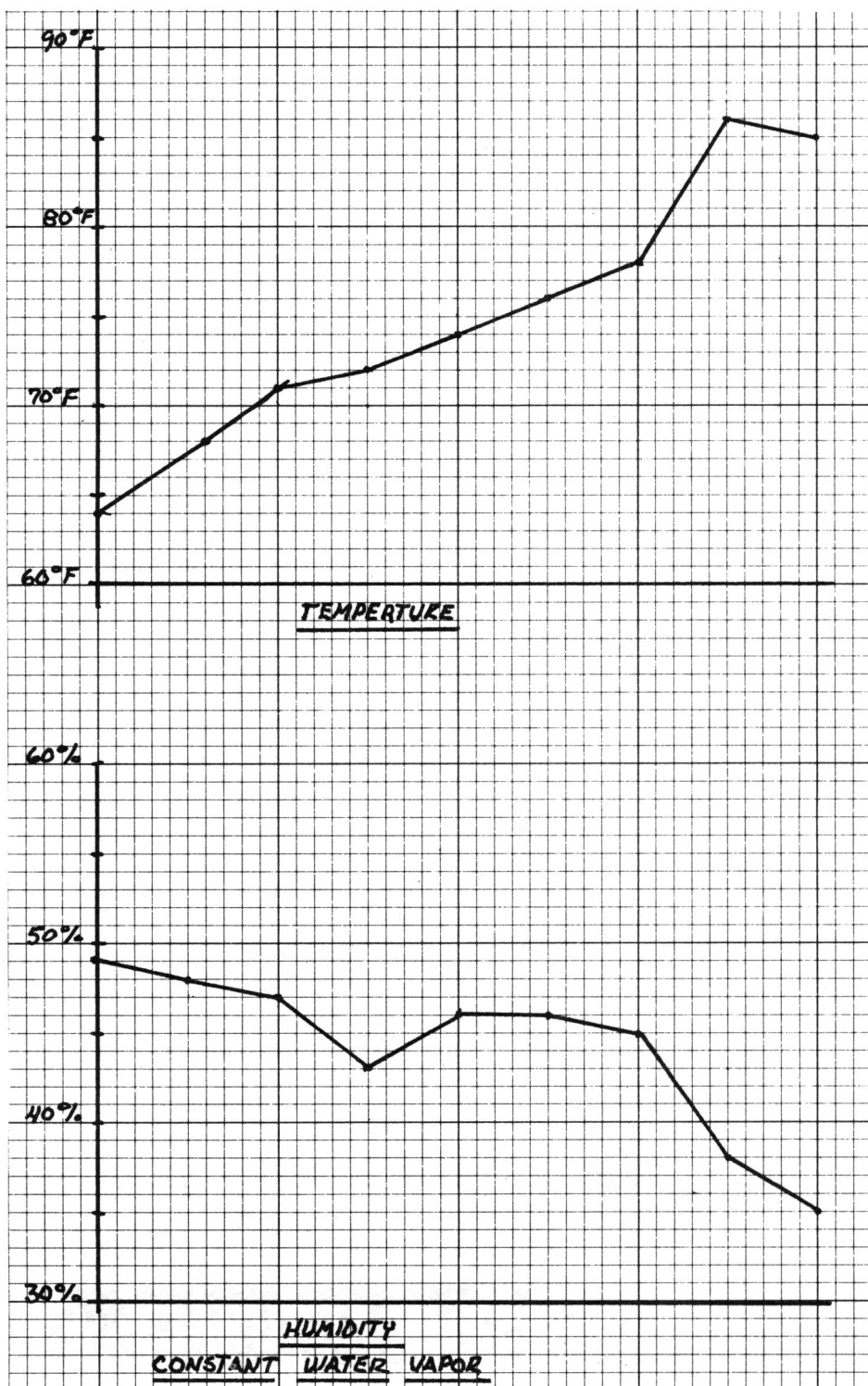
A current heavy varmint class match rifle in the Hornbeck Gun Cabinet performs best with a rather warm load; this is a 22/45. On more than one occasion I have fallen asleep at the switch during a day when temperatures and humidity were climbing rapidly and found that pressure have gotten out of hand, and groups are suffering. Anyone that is using loading data that is on the high side should keep this in mind when reloading and should take into consideration the humidity and temperature as the powder measure is adjusted.

Different powders and even different lots of the same make and powder number can be expected to be effected in different amounts due to the blending additives during manufacturing to maintain a 1% standard between lots and burning rates.

Jon Leu's testing shows up a major factor concerning the effects of the air around us on rifle performance. The practice of recording not only temperature but also humidity as well as atmospheric pressure when chronographing loads is not an un-useful practice. All three factors have some effect on internal as well as external ballistics.

Powder which has been dried and the moisture content removed, will lose 2.5% of it's weight in the process. An additional factor which we often experience at a match is the heating up of our loaded rounds from sitting in the sun for a period of time; the brass becoming quite warm as well as the powder within. This results in the burning rate increasing, with higher pressures and velocities. Temperature and humidity changes may dictate that our best accuracy load may have to be slightly increased, or decreased.

A test that any handloader can make, and obtain some insight on these factors can be made without too much trouble. Set up your powder scale in an area where large changes in temperature and humidity can be expected. Place powder in the pan of the powder scale that you used. By checking the powder scale readings from time to time, over several days, the effects of water vapor and temperature will be observed. It may surprise you.



**Quality Pull-Buttoned
Rifle Barrels
in Stainless Steel**

by

GARY SCHNEIDER

BARREL-MAKER

12202 N. 62nd Place
Scottsdale, Arizona 85254
(602) 948-2525

AIR GAGE BARRELS

FOR CLOSEST TOLERANCE — In "Chrome-Moly" and Stainless Steel. All calibers up to 458 Winchester. Blanks or Finished Turned in standard or target tolerance chambers.

Ask for free data on all our services.
DISCOUNTS TO GUNSMITHS.

Write to

DOUGLAS BARRELS, INC.
5504 Big Tyler Road
Charleston, West Virginia 25312

JON LEU

Dear Dave:

Your final mailing to The Cast arrived day before yesterday, and it made, as I've come to expect, interesting reading. Thanks for sending it along. I can only express the wish that I were in a position to make a worthwhile contribution to that effort.

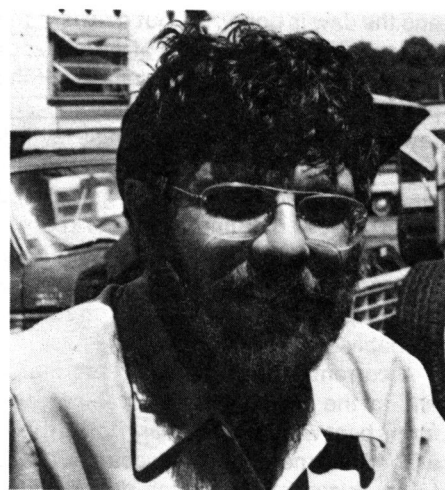
As I put those letters with others previously received, I couldn't help noticing the thickness of the file is now approaching the one inch mark. Having read — again — the entire contents of that file only last week, I continue to be amazed at the diversity of the thinking within those many letters. But it's diversity of thinking with a single goal: the improvement of the breed as it relates to the sport of competitive benchrest shooting.

Still, I can't help wondering at some of the apparent contradictions contained within that material. These last few weeks especially, weeks which have brought reports from those who have experimented in one way or another with the prototype Federal 30-30 cases, have raised, I think, some very serious questions about what we **really** know regarding the subject of rifle accuracy.

Perhaps, rather than an inch or so of letters devoted to a discussion of the possibility of bettering the performance of the PPC, we would be better served by a similar quantity (and quality) of thinking devoted to a slightly different topic: Why does the PPC work as well as it does? Several of the letters within that file point to an im-

portant factor: The PPC alone is not completely responsible for the groups and aggregates we're seeing shot these days. As has been pointed out, improvements in barrels, actions, telescopes, stocks, and other areas have played their part in shrinking groups and aggregates. Unfortunately, we seem to have little in the way of "scientific" information from which we can deduce which factor did what in terms of accuracy improvement.

In the days when the norm for accuracy rifles was something on the order of .5 MOA, there was some merit to the "Let's try it and see if it works" approach to smaller groups and aggregates. Today, with individual groups in the .0s and aggregates in the .1s not all that uncommon, that sort of an approach is certainly less valid — if it's valid at all. Creighton Audette and Merrill Martin point to variations in case wall thickness as being critical in the accuracy process. Quoted from your letter of October 5, "T.J. (Jackson) brings forward the belief that in a precision-cut chamber it is the NECK that is critical . . . not the body run-out. And, of course, the neck can be controlled . . . by precision turning." Turning to the letter from Jim Shultz, we find the comment: "I would like to say at this point that all the shooting for the past three years with this case (6MM SMC) has been with **untuned** necks. Makes one stop and think, maybe we are getting a little picky over precision brass." Such diversity of theory and practice — all of which seems to be working



well, thank you, for the various proponents — points again to the VAST difference between what we **know** and what we **think** we know regarding the subject of accuracy.

Shooters whose interest in benchrest falls in the competitive area need not concern themselves with these sorts of things. Their goal is to shoot smaller groups and smaller aggregates on a given day than their fellow competitors. There's certainly nothing wrong with that approach to the sport and those interests. The "evolutionary" process which our equipment has gone through — a process full of the "Let's try it and see if it works" sort of thinking — has served them well and likely will continue to do so.

On the other hand, shooters whose interest in benchrest lies in the challenge of attaining perfection, the .000 group — if they win a match or three along the way, fine . . . if not, fine, too . . . they have tried to learn something which would be of value to others — are seemingly going to have to take a different approach. In terms of **aggregates** for virtually every class at 100 yards shot in the "real world"

Continued on next page

⊕ SHOOTERS' SUPPLIES ⊕

★ SPECIALIST IN ACCURACY ★

"We Have What It Takes"

PRECISION BENCHREST RELOADING SUPPLIES BY THE INDUSTRY'S LEADING MANUFACTURERS FOR THE ACCURACY MINDED SHOOTER.

DYNA-SPORTS

12818-B HEMPSTEAD HWY.
HOUSTON, TX 77092
PHONE 1-713-895-0064

SEND #10 SASE FOR PRICE LIST OR CALL JACK HEATH FOR INFORMATION.

BUCKLAND GUN SHOP JARRETT CUSTOM RIFLES

Specializing in benchrest rifles, target rifles, and high grade hunting rifles.

Kenny Jarrett
Route #1, Box 411
Cowden Plantation
Jackson, South Carolina
29831

(803) 471-3616 Shop
(803) 471-3313 home

.17 Caliber Bullet Making

Jonas Hallgrímsson

Dear Dr. Garcelon,

When one reaches 83 plus years of age, he becomes less and less inclined to do many things that includes letter writing.

I'm afraid that I have a problem, and there are very few friends left from my era of benchrest shooting to whom I could turn.

A long time ago Ray Biehler and Walt Astles developed and made up two complete sets of draw dies and bullet swages in .17 caliber. The draw dies were designed to reduce .22 caliber jackets to .17 caliber in two draws. One set was for light weight jackets such as the Sierra Hornet or Blitz jackets. The other set was

made for regular weight jackets. The bullet swages form similar, but not the same, shape of bullets. There is also a bullet swage made by Franzen for round nose bullets. The jackets are automatically trimmed to length by the punch off process for 20 grain, 25 and 30 grain bullet weights.

This equipment is capable of producing high precision bullets, and in my rifles gave better results than I was able to get with any other kind of .17 caliber bullets that I was able to test. I had many similar reports from friends who tried .17 caliber bullets made in these dies. The secret of course is precision jackets. The draw dies are designed so as to hold the jackets centered on the draw punch and in the die which is an absolute must if real precision is called for.

I would much rather have someone here (Iceland) buy and use these dies, but there is a limited number of shooters here who swage their own bullets, so the possibilities of local interest are nominal, and I myself am not in the best of health.

It is difficult to put a price tag on this equipment, but to anyone really interested, it should be worth at least \$2,000. To have it made today would surely cost double that amount.

I must apologize, Doc Garcelon, for asking you to do this for me, knowing how busy you are, but I can think of no one else to turn to. As to the price that I mentioned, it may not be possible to realize it, and you would have a free hand if the best offer was within reason.

I will greatly appreciate any help you can give me here.

Sincerely,
Jonas Hallgrímsson
Reykjavik, Iceland

(with wind and light and mirage to contend with), the difference between "perfection" and our present level of attainment is less than .2". It's rather difficult to talk of "bettering the performance of the PPC" when we don't KNOW what the PPC is capable of. It's equally difficult to talk about "bettering the performance of the PPC" when we don't KNOW why the PPC performs as well as it does. As Nick Young pointed out in a recent letter, it's time to go back to "square one" and attempt to learn what's really going on here. We've got lots of theories — many of which seem to work under the conditions where they have been tested — but we really have very little in the way of proven fact.

It seems to me if we're going to bridge that little .1-.2" gap between perfection and today's level of attainment, we're going to have to scrutinize EVERY aspect of the accuracy rifle/cartridge combination. And if we're going to do it without the benefit of controlled (warehouse?) conditions, we're going to have to scrutinize our results with some very sophisticated statistical analyses to weed out wind, light, and mirage factors. That's certainly not something that everyone will — or should — be interested in. I would hope that those shooters who are interested in the competitive aspects of the sport would encourage those who are interested in the experimental (or learning) aspects. It's the competitors in the end, who will reap the rewards.

Sincerely
Jon. R. Leu

Editor's Addendum: Because, as mentioned in the letter itself, Jonas is not feeling all that well, the Editor will pinch hit for Doc Garcelon. Kindly address all communications on the matter of the .17 caliber bullet dies to the Editor. After a reasonable period of time, I will gather up the correspondence, and relay to Jonas with my opinions and suggestions. I will serve as intermediary on the matter not because of any great desire to grow up to be an intermediary but rather because the gentleman asked Doc Garcelon for help. Doc would have done no less.

HART

NEW PRODUCT

R.W. Hart and Son, Inc. introduces a new handle for brushes for case neck cleaning. Made of aluminum, and knurled, it is both handsome and useful. Field tested; the editor was able to use one without bloodshed.

\$1.95

Postage will be invoiced

BENCHREST GUN WORK ... OUR SPECIALTY

Hart Actions - 4 styles
Action Cleaning Tube
Benchrest Pedestals
Neck Turning Tool
Flash Hole Deburring Tool
Primer Pocket Cleaner
Primer Sealer
Hart Benchrest Bullets
Custom made in .224 cal. 52 Gr. BT
6mm cal. 62 Gr. BT
6mm cal. 70 Gr. BT
Remington 40XB and 40XB-BR Target Rifles
Sierra Bullets
Nosler Bullets
Federal Match Primers
Remington Match Primers
Federal Match Cases — cal. .222 and .308
PPC Cases Available
J. Dewey Ramrods
Bonanza Products
MTM Products
Lyman Products
Brass Core Wire Brushes, Rifle and Pistol
Leupold Scopes

**WE HANDLE BENCHREST
SUPPLIES AND EQUIPMENT
OF PROVEN QUALITY.**

NEW — L.E. Wilson Products
We are now handling the Wilson Products.
Listing in our 1984 catalog.

FREE CATALOG
Mailed catalogs - send \$1.00 for postage
Dealers' Inquiries Welcome — Send certified copy
of Federal Firearms License
for dealer prices.

**ROBERT W. HART
and SON, INC.**

401 MONTGOMERY ST.
NESCOPECK, PENNSYLVANIA 18635
(717) 752-3655

BENCHREST CARTRIDGES

(An Article for The New Shooter)

by Dave Brennan

We receive a certain number, and an ongoing number of similarly worded requests here at our editorial offices from newer shooters, asking basic questions. No problem with that, our staff is glad to be of assistance. But the thought does occur that possibly a few "basic" articles might be of some help to those new to the accuracy game. Pull up an overstuffed chair, get your shoes off, open a cold beer, put a thoughtful expression on your mug, and we'll get this show on the road with a discussion of the cartridges that one is likely to see in competition today.

The 6 PPC. Odds on the most popular choice of benchrest shooters today. Seventy five per cent (or more) of the guns on the firing line in any major match today will be chambered for the 6 PPC. The new shooter, having his first benchrest rifle built, should consider nothing else, if only because it is the accepted standard, and every top-level, benchrest gunsmith in the country chambers for it, and is familiar with it. The basic case employed is the .220 Russian case, with the USSR military originally brought into being as an assault rifle cartridge . . . an assault rifle being an ungainly, graceless, creation designed to spray a lot of lead around the landscape in a relatively short period of time. Measuring approximately 1.500 inches overall, the case uses the small rifle primer, and a small flash-hole, both of which are regarded as important factors in the overall success of the cartridge. The case is made only by Sako, in Finland, and it is universally agreed that the basic case is made with excellent uniformity of case walls . . . another factor in it's success. The case, when it reaches the shooter, should have the flash hole de-burred, be necked up to 243 size, and have the outside neck turned. The most common accuracy load is somewhere in the vicinity of 27.0-27.5 grains of H 322 with 68-69 grain benchrest quality bullets, and Federal 205M primers. The charge should be reduced a bit for T 322 powder, and some shooters do well with 29.5 grain of that hard-to-find, and expensive, Norma 201 powder. A few shooters will use 4895 powder, usually in the 28.9 grain range, while fewer shooters yet will be using 4198 powder, starting with somewhere around 25 grains and muddling from there. Most shooters agree that 4198 will vary considerably from lot to lot, which is both a reason for caution, and also the reason why the powder is in less use for this cartridge than previously.

The .22 PPC. The accepted rationale in 1986 is that the best bullet jackets are available in a .243 size, and also the heavier 68-69 grain bullets give greater wind bucking, so use the 6 PPC. In the 1985 IBS Nationals, where three classes were contested, and sixty "top twenty" patches were given out, only two of the patches went to a shooter of the .22 PPC. In the 1985 NBRSA Nationals, which shoots four classes, and hence had eighty patches to bestow upon the multitude, they gave three patches to .22 PPC shooters. All comments for the 6 PPC apply to the .22 PPC, except that necking up is obviously not necessary.

The .22 Waldog. A wildcat that has a certain following, primarily in the West, where gunsmith Dan Dowling, of Arvada, Colorado has turned out a number of Waldog chambered rifles. When all is said and done, it is a shortened .22 PPC. In capable hands, such as Bill Pond, it has shot well, and indeed set national records. It has found virtually no acceptance in the East, for no particular reason.

The .222 Remington. Dating back to 1950, the .222 was king of the accuracy field for 25 years, until replaced by the PPC in the mid-1970's. Even today it is shot, and shot well, by shooters such as Allan Hall, Walt Berger and Larry Engelbrecht. Other shooters such as Rick Hornbeck, George Kelbly, Stan Buchtel, and Bud Mundy use the .222 with a changed shoulder angle. The case is ideal for a youngster or a lady who might be a bit recoil conscious; it creates a lot less uproar (Mike Walker's phrase) upon firing than does the PPC. The rumors heard in gossip sessions are to the effect that overseas brass (Sako, Norma, RWS) has considerably better case side-wall uniformity than does our domestic products. The PPC Corporation will begin importing Sako brass in early 1986, and R.W. Hart & Son is bringing in Norma brass under a new distributor agreement at present. RWS brass will pop up here and there, but is hardly "generally available. The classic load for the deuce in its heyday was 21.0 grains of 4198, but most shooters using the cartridge today are using H 335, H 332, or T 322. If the foreign brass is indeed as good as some say that it is, we could see a mild resurrection of the venerable deuce, probably with Berger or Hollister bullets . . . these the two most popular bullet makers in this generally neglected caliber.

The 6x47. The .222 Remington mag-

num, necked up to 6 MM caliber. The sporter class has always required ".230 caliber or larger", and until the 6 PPC came along, the 6x47 was the most common sporter class caliber. And when the PPC came along, a lot of shooters heaved a sigh of relief, for the 6x47 was a finicky and temperamental as a Metropolitan Opera Soprano. Some days it shot well . . . and on other days . . . well, human sacrifices and burnt offerings were to no avail. Many theories were advanced for the shortcomings of the little stinker; the two most often heard were that the drawing of the brass on such a long, thin cartridge often turned up poor case-wall uniformity . . . and also a theory that a small flash hole was needed for a long, thin case such as this. The 6x47 hit a new low in 1985 . . . not a single "top twenty" patch went to the cartridge in either the NBRSA or IBS Nationals. Today, the editor thinks this an excellent cartridge . . . to stay away from. It has turned a lot of good shooters to demon alcohol in its day.

The .308. Seen almost exclusively in the unlimited-heavy bench class, the .308 is another case that has just about seen it's day . . . as shooters came to realize that the 6 PPC bullet, moving out at a hefty muzzle velocity, will actually have less wind drift than the heavier, slow moving .308 projective. Another low-point cartridge for 1985 . . . not a single "top 20" patch in either NBRSA or IBS Nationals. When buying a used benchrest rifle in either 6x47 or .308 . . . the price should reflect the unpopularity of the cartridge. Actually it would be better if you pass them by completely.

We have discussed only the factory cartridges, or the wildcats that have achieved substantial popularity in this article. Next article, we'll touch on those exotic creations, the wildcats, and speculate a bit. Still, the beginning, newer shooter is advised to stick to the standard cases, and leave the wildcats to those who like to joust with windmills. And, before TJ Jackson and Ron Keim hang the editor . . . we'll drag in the BR case next month. TJ, sit down; stop waving your arms and shouting at the editor. I promise we'll get to the BR next month. And we'll speculate a bit about the two new, longer PPC cases. And hopefully we'll have some final word on the Federal 30-30 brass with the small primer pockets that some of the gang have been playing with on an experimental basis these last few months. As with any discussion on wildcats, we'll dream a bit, speculate a bit, and probably get souls angry at us (again). Realists may want to plan on skipping the article.

Program

FOURTH ANNUAL CACTUS CLASSIC MONEY SHOOT

March 1, 1986: Light Varmint Sight In plus 5-5 shot matches at 100 yds.
Heavy Varmint Sight in plus 5-5 shot matches at 100 yds.

March 2, 1986: Heavy Varmint Sight In plus 5-5 shot matches at 200 yds.
Light Varmint Sight In plus 5-5 shot matches at 200 yds.

FEES: Registration fee of \$12.50 per day. This is an NBRSA registered shoot. The cash option fee is \$30.00 per day and all of the cash option money will be paid to the shooters. You do not have to participate in the cash options to shoot, however you must participate in the cash options to be eligible for the merchandise prizes. The merchandise will be awarded at a free dinner on Saturday night at the range.

AWARDS: Cash to be awarded as follows:

Match Winners	2 Places
Aggregates	3 Places
Grand Aggs	6 Places
2 Gun Aggs	20 Places

Trophies to be awarded for each Agg winner plus each Grand Agg winner, the first three places in the 2 gun, and the H&S Precision Trophy.

RANGE LOCATION: The Black Canyon Range is located about 15 miles north of Phoenix on the Black Canyon Hwy (Interstate 17) and the Carefree Hwy.

FACILITIES: Thirty covered concrete benches. A covered loading area is available. Camping with hookup is available at the range. The range is open daily for practice (\$2 fee).

MOTELS: Match headquarters will be at the RODEWAY INN located at I-17 and Peoria METRO CENTER. There will be a GET TO KNOW YOU gathering in the RODEWAYS BANQUET ROOMS at 6:30 PM Friday February 28. Rodeway rates for shooters are \$45.00 for one or more persons. Other area motels are available. If you need assistance, please call Walt Berger at 602-846-5791 or Rodeway Inn 602-943-2371.

ENTRY FORM: Send entries to and make checks payable to:

Arizona Benchrest shooters
4234 N. 63rd Ave.
Phoenix, AZ 85033

Total fee for two days \$85.00
You must be an NBRSA or IBS member to shoot.

Preregistration is requested. If you can not attend a full refund will be made. Benches will be assigned by drawing and relays on a first come basis unless otherwise requested.

Signature	Date	
Name		
Street		
City	State	Zip

GAMES OF CHANCE? IN OUR BELOVED MAGAZINE??

The AMERICAN CUSTOM, GUNMAKERS GUILD is proud to announce the completion of the second rifle in its series

of custom firearms which is produced at the rate of one per year and raffled off to the benefit of the Guild. Each ACGG rifle

(or shotgun) represents the combined efforts of a team of master craftsmen (gunsmith, engraver, and stockmaker).

The #2 Rifle is in a class of its own and the envy of many admirers. The dark English walnut wood was stocked by Jerry Fisher, Kalispell, MT. Metal work was completed by Dave Talley, Leesville, SC. The engraver was T. J. Kaye of Junction, TX. The 270 caliber Mauser action rifle has a filed up trigger floor plate assembly by Ted Blackburn and a Leupold 4x scope. The deluxe leather case was designed and custom built by Marvin C. Huey.

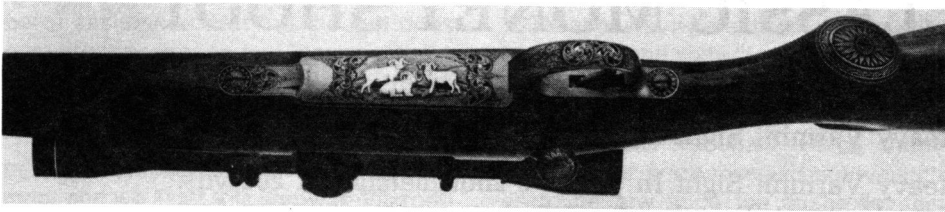
Central to the theme of the Guild rifle is the engraving on the floorplate of a scene on an oil painting by Hayden Lambson of Pocatello, ID. The painting "Valley of the Dalls" was painted at the request of Tommy Kaye and was composed from photographic work done in Alaska. The dall sheep create an impressive image with the silver and gold inlay. The white sheep with gold horns lend excellently to high-relief engraving.

Many hours of skilled effort are required to complete a project such as the second Guild rifle and the combination of quality gunmakers again produced a rifle unmatched. The #2 ACGG Rifle will be displayed and raffled at the 2nd Annual National Custom Gun Show February 8-9, 1986 at the El Rancho Hotel in Las Vegas, Nevada. The public is encouraged to attend this show which, held in conjunction with the Firearms Engravers Guild of America, will again be the finest display of custom gun work ever displayed. Sales will be permitted on the premises.

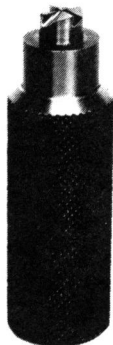
Raffle tickets for the rifle and the painting are being sold by members of the Guild at \$10.00 each. Anyone wishing to purchase tickets direct should send their check to ACGG c/o Jan's Secretariat, 220 Division Street, Northfield, MN 55057. Tickets are considered tax-deductible since proceeds will directly benefit the Guild which is a non-profit organization.

For additional information on the ACGG rifle, please contact Roger Green, President, ACGG, Box 984, Glenrock, WY 82637, Phone (307) 436-9804.

Editor: It is my personal belief that none of our readers wager or gamble. This is printed merely to show you what the sinners are doing these days. We have also given you the correct address for the sinners in case you might want to write them a letter. Or take a raffle ticket.



MATCH PREP PRIMER POCKET TOOL



This competition-grade lifetime carbide tool cuts pockets to SAAMI specs, precise depth, bottom flat, for uniform primer seating conditions. Continued use keeps pocket clean. Specify large rifle or small rifle, each priced \$20 plus \$1 shipping. Whitetail Design & Engineering Ltd., 9421 E. Mannsiding Road, Clare, Michigan 48617

ORDER FROM

WHITETAIL DESIGN & ENGINEERING LTD.

Dept. PS, 9421 E. Mannsiding Rd.
Clare, Michigan 48617

SWITCH BARREL RIFLES

LIGHT VARMINT - HEAVY VARMINT
COMBINATION

HEAVY VARMINT - HEAVY BENCH
(CRUISER) COMBINATION

ALSO HUNTER CLASS
with .308 and 6x44 barrels, or 30x44 and
6x44 barrels

SEELY MASKER

CUSTOM RIFLES

Rebarreling — Rechambering —
Restocking

261 Washington Avenue
Pleasantville, N.Y. 10570
Phone (914) 769-2627
Send \$1.00 for brochure.

Wilbur Cooper

(Editor's introduction: recently T.J. Jackson told me that a gentleman in Houston, Wilbur Cooper, was making a small run of custom actions. TJ told me that Wilbur Cooper was a real craftsman, and I ought to see if all the actions were spoken for. The Editor needs another custom action sort of like Custer needed more Indians . . . but what the heck . . . off went a letter to Houston. Nothing ventured, nothing gained. Faint heart never won fair lady. Etc. Etc.)

Dear Dave,

I'm afraid I'm not much of a hand with a typewriter (Editor: Wilbur, you ought to see me at a lathe), so you have to take a hand-written letter.

Yes, I know TJ Jackson very well. We have had many long discussion about what a good benchrest action should be. TJ has a lot of good ideas, and is a very knowledgeable man. (Editor: no need to get humble, Wilbur; TJ doesn't type either).

Building actions is a hobby of mine, not a business. You heard correctly, I am finishing up a production run of twelve actions, but they have all been spoken for. (Editor: give me a couple of names, Wilbur. We'll take them off the mailing list, and hope that they lose interest in the sport). I started this production run about two and a half years ago, so you can see that it is not a real priority item. (Editor: don't get humble, Wilbur. You're just about average for the trade, and faster than a few that I can think of).

There is nothing really special about my actions; just a real hang-up on good workmanship. The receiver material is 4140

heat treated steel. The bolt is 8620 case hardened, and ground size. The bolt is lapped in the receiver, as are the bolt shroud threads in the bolt. I don't want anything to move when you pull the trigger. (Editor: well, for Pete's sake, Wilbur . . . I personally think that the firing pin should do something or other when you pull the trigger).

The extractor, bolt stop, and sears are made out of Starrett tool steel, heat-treated to 60 Rc. The bolt handle is 416 stainless, bolted to the bolt, so that the cam on the bolt stays hard. I have my own design of scope rings. They are split vertically, and clamp to a 1/4 diameter socket-head cap screw, so that has a 4 degree per side taper. This permits the scope to self-align when you tighten the screws. All actions have a mounting system of my own; they are not glued in.

You might be interested in my next project. I am going to build five actions, each one a little stiffer than the preceding one. Headspace will be the same on all five actions. The threads are all machined (not tapped) to thread gages. This way we can unscrew one barrel out of one action, and put it into another action within any other changes. We hope to find out how stiff an action should really be in order for it to shoot well. We also hope to utilize strain gages, borrowing a recording machine to tape the data, and find where the action flexes when it is fired.

Ralph Council is working with me on this project, and he will furnish the bullets. I also have access to the Houston warehouse, along with Virgil King and TJ Jackson, that TJ mentioned in his article. I have a nice range to shoot at, at

the Tomball Club. I also have my own 24 acre place to shoot on. I have a manufacturing business, with a well-equipped machine shop. I am a mechanical engineer, a machinist, and a gun nut. (Editor: me too. Well, the last one anyway).

These actions most certainly have the barrel threads square with the receiver. The bolt end is bored, then hand lapped. All parts are indicated when put in the lathe, and adjusted until the indicator doesn't even wiggle.

When we do that little exercise with the five actions, and the same barrel, if the stiffest one shoots better than the most limber one, we will have established something. If it doesn't then we will make some smaller yet, until we find a point where stiffness does make a difference. When we have completed this test, I will be able to go to the next match with the best shooting rifle that I know how to make.

I did enjoy your letter, and I do enjoy reading Precision Shooting each month.

JIM GREENAWALT

We apologize, Dear Reader, for not changing the ad copy the last few months. During that time interval we have been in Europe, where we were called upon to touch up a few ceiling murals in churches in Italy, re-do Mona Lisa (now a nude), and do a few fiberglass stocks for the Royal Bastard in a nameless European principality. (Editor: I've known a few Royal Bastards, in my time). I was also privileged to teach the action glue-in method to a few members of European aristocracy who are temporarily out of other work; discretion does not allow me to name names. I'm sure that you will understand.

Be all this as it may, I have returned to my bleak, brooding castle on the Hudson, right by the Yonkers Race Track. Once I get rid of a few vampires and werewolves, who moved in while I was away, I will once again be doing:

- Fiberglass stock works
- Stock painting
- Stock bedding
- Airbrush and murals

Please feel free to call us for any fiberglass stock work. If a vampire answers, please call back. They're hopeless at taking messages.

Jim Greenawalt
102 Brandon Road
Yonkers, New York 10704
(914) 776-1581



HART RIFLE BARRELS, INC.

Stainless Steel Rifle Barrels

PRECISION STAINLESS STEEL MATCH TARGET BARRELS

AVAILABLE IN .224, 6MM, 6.5MM, 7MM,
.25 and .30 calibers, also .22 rim fire.

Gunsmithing services and complete custom
target and sporting rifles available.

For prices and particulars, write:

Hart Rifle Barrels, Inc.

LaFayette, New York 13084, R.D. No. 2

Telephone 315-677-9841

A LETTER FROM FINLAND

Dear Mr. Hornbeck,

Many thanks for all the information that you have so kindly provided us with on the subject of wind-flags. I have settled on one type that you have described, and have been using them with good results. They certainly have taught me a lot about wind changes that previously I had only been guessing at.

We have just held the first benchrest match in Scandinavia. There were shooters from Sweden, Finland, and the Aland Islands between the two countries.

We held the match on Saturday, August 24th, and to our surprise, 23 shooters showed up. We only have three benches, so our aggregate was made up of only three groups. We started at 11:00 AM, and managed to finish at 5:00 PM. The whole competition went off smoothly, with none of the problems that we were concerned about arising . . . This being our first ever match, we were a bit nervous. The weather was nice, but it was quite windy, and we are not yet experienced wind shooters.

Enclosed is a copy of the match report. It may be of interest to you, since it shows

that we have come along a bit since I first wrote to you back in 1981, asking a multitude of question that you so kindly answered. Many thanks for all your help!

With only three benches, we are probably the smallest benchrest range in the world. Here in the Aland islands we have only four members of the IBS so far. We really enjoy *Precision Shooting* magazine, and the Editor's humor. Please give him our regards from here.

Enclosed are some pictures of our modest range, set up for 100 meters. We have an enclosed shooting house, with three windows for firing from the three benches. There is another little house that you can see in the photos; that is for shooting elk. (Editor: Johnstown and Council Cup also have elk-shooting houses. The fact that there are no elk in New York or Pennsylvania is only a minor consideration. Every range should have an elk-shooting house. The IBS should make it mandatory, I understand that the better Texas ranges all have elk-shooting houses. The one at Midland has a big Coors sign on it.)

The benches are made from plans that we received from Lloyd Richards several years ago. They are sturdy, and do the job.

I, age 68, was quite surprised to find myself with the first place prize for the match, a handsome Sako target rifle in .222 caliber. My son Conny, age 18, took the second place prize, a Leupold 8-12 scope, and my grandson John, age 16, took third prize, a fine knife.

I am sending you a copy of the Swedish magazine, "*Jakt & Vapen*". They covered the match with a reporter and a photographer, and we had a five page write-up of

what we called The Nordic Benchrest Championships (Editor: wait until they learn that they also hold state championships, regional championships, and a half-dozen other titles). Rick, I'm sorry that it is only in Swedish. (Editor: Didn't you know that Hornbeck is an old Swedish name? Every time Rick gets mad at me, he starts cursing me in Swedish).

I am enclosing a copy of my "small group of the day", a .146. Unfortunately my fifth shot went low. (Editor: you've got to learn the phrase, "there's something out there", and keep repeating it to all who will listen). The three of us fired the same rifle, a 6 PPC, Hart 1A action, Hart barrel, Leupold 24x scope, McMillan stock, and a load of 27.7 grains of H 322 with 68 grain Watson bullets.

In the magazine is a photo of product manager Veikko Sevna from Sako, with their first sample of a PPC rifle. On the next page is a photo of Jan Stenroos, who does very good gunsmithing for us here in Mariehamn.

I guess I'm sending you quite a bundle here, but we do feel quite a bit of pride in our first match attempt, and we have hopes of quite a few more shooters next year, after that excellent write-up in the very popular "*Jakt & Vapen*" magazine.

Finally, so many shooters in America have been so kind to us when we wrote, asking simple, basic questions. Thank you to so many, for being so much help.

In closing, best regards from the benchrest range closest to the USSR. (Editor: if you're that close, let's watch those stray shots, huh?)

Sincerely,
Holger Sjostrom

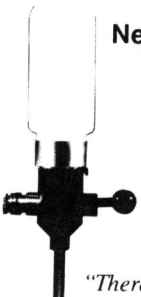
RESULTS OF THE NORDIC BENCHREST CHAMPIONSHIPS:

1.) Holger Sjostrom	.237 agg
2.) Conny Sjostrom	.285 agg
3.) John Sjostrom	.362 agg
4.) Jan Stenroos	.363 agg
5.) Torjorn Haggblom	.419 agg

MATCH GRADE STAINLESS STEEL BUTTON RIFLED BARRELS

DANIEL LILJA
Precision Rifle Barrels, Inc.

P.O. BOX 372
PLAINS, MT 59859
Shop 406-826-3084
Home 406-826-3083



Neil Jones' Custom Products
MICRO MEASURE
Versatile - Accurate
Repeatable to .001 grain

"There's none better", Don Geraci

The powder measure is the most important tool on the serious reloader's bench. The MICRO MEASURE is the choice of benchrest shooters, and other dedicated marksmen throughout the world.

Offered with a choice of Drums

Standard: Capacity, 16-114 grains
Click Value, .3 grain

Small: Capacity, 4-65 grains
Click Value, .1 grain

Includes Removable Powder Bottle/Reservoir, two 3" drop tubes (22/6mm and .30 or larger), and Instructions for Use.

\$180 with Standard Drum, \$195 with Small Drum, \$280 with both Drums.

IMPORTANT: We can install your Culver or Jones insert in a MICRO MEASURE body. \$100.00

Illustrated catalog \$1.00

Custom Products

R.D. #1, Box 483-A • Saegertown, PA 16433
(814) 763-2769

THE ARMOR PORTABLE SHOOTING BENCH



— Lets you set up your own personal range almost anywhere - The solidest portable benchrest ever devised, yet easily transportable - Large, extra thick, exterior 10 ply top measures 29" x 43 1/2" x 1 1/2", smooth sanded ready to finish - Heavy round steel legs thread into precisely angled brackets for self-bracing stability - The ultimate aid to all-around rifle accuracy shooting.

3 Leg Standard model, 51 lbs.

\$119.95

4 Leg Level ground model, 59 lbs.

\$129.95

Plus UPS Collect. Specify if left handed.

Armor Metal Products
Box 4609
Helena, MT 59604

Phone:
406-442-5560

.308 STUFF

Dear Dave,

I've subscribed to *Precision Shooting* for two years now, and even though I'm no benchrest shooter (Editor: you say that in the same general style that many use when denying they are alcoholics), I do like and appreciate an accurate rifle. I currently am shooting a Steyr SSG match rifle in .308 chambering. My load at present is 41.4 grains of IMR 4064 with the Sierra 168 grain International bullet. This load when I do my part, consistently will shoot an inch and a half at 200 yards . . . for 15 shot groups. As my facilities are limited, I have to do my meticulous case segregation and limited brass preparation. I have found that I can reduce group size by 75% . . . or more . . . when I shoot brass selected on certain criteria. To wit:

- 1.) Headspace at a chosen dimension usually .005 less than max, with less than .001 total variation.
- 2.) Case weight within one grain variation.
- 3.) Neck dimensions within .0001, both inside and outside, before sizing. (If necessary, and it usually is, I produce the outside diameter in previous firings and shimming).
- 4.) Overall case length variation within .0005, I try to keep my .308 cases right at 2,000 inch.
- 5.) Primer pocket depth variation within .0005 . . . with .001 total variation.
- 6.) Primer pocket diameter dimensions within .0005 total variation.
- 7.) Flash hole diameters within .001 total variation.
- 8.) Flash hole concentricity .001 max total indicator reading.
- 9.) Case neck concentricity .001 max total indicator reading.
- 10.) Powder charge weight within one tenth of a grain.

Needless to say, it takes up to 500 rounds of Lake City brass to get 20 or 30 keepers, the toughest requirement being my headspace specifications. This is very disheartening, and I wonder if there is a financially responsible way of producing headspace and squareness to less than .0005 variation. Lathes have not proven to be accurate enough, as you either hold a mandrel inside the case mouth . . . which may or may not be (probably the latter) perpendicular to the headspace, or you chuck on the O.D. with the same lack of accuracy. What I may end up doing is grinding the case head while in a headspace gauge. Relieved, of course.

Anyway, with the aforementioned load, I have chronographed 650 rounds to date. I

get 2575 f.p.s velocity at 15 feet from the muzzle, 11 standard deviation. The 650 loads chronographed were not "keepers".

Thanks for bearing with me, and keep up the good work. *Precision Shooting* is one of the most intelligent, well-written, and, yes . . . well edited publications I've ever read. By the way, is there ever a benchrest match in New England? Seems like they're all in Texas!

Stephen A. Marshall
9 Arlington Avenue
Nashua, New Hampshire 03060

Editor: with all that case work behind you, the next obvious step is to move to bullet selection. Marcy Lyon's article on this aspect of things should be in this issue. It is a

great shame that New England has no active benchrest ranges. Your best bets would be the Dunhams Bay range, just over the New York state line, near Glens Falls, or the Johnstown range, about 30 miles west of Albany, New York. You will find them on your way to Texas. Texas is a great place, and many Texans are bigger than life individuals. But every time a yankee shows up down there, they drag out all their tall tales, dust them off a bit, and go looking for the visiting yankee. Texans deny this, and insist that this describes Oklahoma . . . not them.

WANTED

40-X ACTIONS, STOCKS,
and RIFLES.

Bob Pease

POB 787, New Braunfels, TX 78131.
AC 512 625-1342 afternoons

HAPPY HOLIDAYS TO ALL OF OUR CUSTOMERS ALL OVER THE WORLD



We have greatly enjoyed being part of the benchrest world, and the accuracy world. We have made a lot of new friends . . . people that we like to hear from. PS magazine has brought us a way of keeping track of you, your tests, and your match results. We feel that we are part of your world . . . and it's a nice, friendly world. Thanks for having us in.

The Reamer People

Come see us at the 1986 Shot Show,
Houston, Texas, booth #2331.



Highly Precise Tool Manufacturing

1141 South Sumner Road, Coos Bay, Oregon 97420 USA (503) 267-4331

Telex: 5101012838
Answerback: "GUNTOOLS"
Easylink MBN: 62892576

Walt Balch

Dear Dave:

Sitting around at breakfast today, wondering how a person could chase the lands on a rifle barrel to insure that there were no missing portions of same. I will not go into the reason for wondering about this. The question was how could I do this without paying the \$700+ for a barrelscope? When for some strange reason my thoughts slipped back to my college days and a course that I took in microphotography. There we used a SLR (single lens reflex camera for our non-photographic shooters) without a lens. We mounted it on a stand with the lens opening of the camera body directly over the body tube of the microscope. Then focusing the microscope I was able to snap pictures of different levels of tissue samples.

Away from Biology and back to my problem. I still have the SLR and I also have a fine 200mm Zoom to Macro lens that allows you to take pictures from approximately 3" away. Why not try it I said to myself aloud. People in the restaurant turned around and stared at me like I had slipped a clog. Oh well they don't understand a genius at work.

When I got home I set the gun in a bench

vice, leveled the gun so I could have a straight shot down the barrel with the camera. I then put the camera on a tripod, set the macro dial on the lens down as far as it would go, cranked the magnification up to 200 and lined the camera up, centered with the barrel. After playing around I found that, with the preceding settings its best to move the camera or gun, which ever is easier, apart until you are focused right on the throat or muzzle crown. Which ever end you start from, and you will look down both ends. When everything is set up just start turning out your

macro dial and you will find that you stay focused on the lands about 3/4th of the way down the barrel. Granted they are not magnified to any extent but you can make sure that they are present. If everything is lined up near perfect you will also notice that they keep the same contrast if there is no excessive wear. To see the rest of the barrel just work from the other end.

The picture sort of looks like a 0 with five, or how ever many lands your barrel has, streaming slightly away from the 0. I hope some of our fellow shooters may find this useful.

A Short Sam Wilson Story

This one is courtesy of Ken Glanzer, of Seattle, Washington.

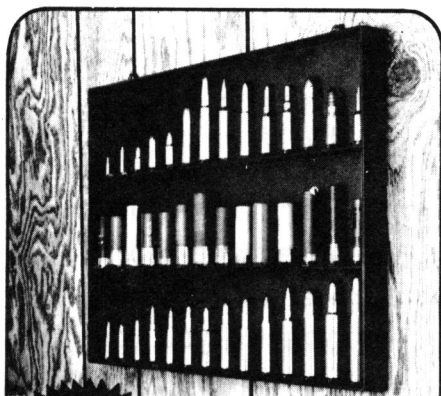
Ken had stopped off at the Wilson home one time when he was deer hunting in the area, for the dual purposes of saying hello to Sam, and also to see how the World Series game was going.

"Sam used a hearing aid, but usually turned it off while watching television. He expressed himself that he didn't need any darn fool to tell him what he could see was going on. When Sam headed for his beloved pool table, I turned the TV sound up just enough for me to be able to hear it . . . and then we shot some pool. While we were so engaged, Sam told me a story of shooting a deer in front of a witness . . . and it took Sam twenty minutes to get to the supposedly deceased deer. Upon arriving at the fallen critter (alone), Sam discovered that he had merely grazed the animal with his shot . . . and the deer was showing rapid signs of recovery . . . including presumably a wish to vacate the immediate premises. Where upon Sam let him have it right between the eyes, a not too remarkable shot for one about two feet away at the time.

Sam then proceeds to have quite a tussle with the carcass, but finally gets it into camp. Meanwhile, the witness to the shot, having gone off to see if he could not locate another deer . . . returned to camp about the same time as Sam arrived. All this pilgrim knew was that he had seen Sam shoot this deer offhand, from somewhere around 300 yards away . . . and the bullet hole is smack between the eyes.

The following day, on his return to town, the chap took it as his divinely appointed mission in life to start telling everyone of the snap shot by Sam Wilson . . . 300 yards away, if an inch . . . and Sam shot the critter between the eyes . . . off-hand. Since the gentleman 100 per cent believed his own story, he was to be a convincing witness to the tale . . . which soon was accepted as gospel by the locals.

I asked Sam if he had ever straightened out the story locally . . . and if not, why not. He said, "No . . . it wouldn't serve any useful purpose". Sam used that philosophy in everything that he did. It had to "serve a useful purpose", or he didn't do it".



NEW Cartridge Display Board from MTM

Made of high impact plastic, the MTM Cartridge Display Board holds 42 metallics and/or shotshells; .22 Short to 600 Nitro Express, 410 to 10 gauge. Unique clips hold each item securely. Perfect for displaying your collection at home or the office.

15 3/4" x 13" x 1 3/16"

\$19⁹⁵

New full color MTM Catalog now available - only \$1.00

(Add \$2.00 if ordering from the manufacturer.)

MTM Molded Products Company
P.O. Box 14117 • Dayton, Ohio 45414

BERGER BULLETS

*We wish to thank
all of our customers
for their patronage
in 1985.*

*and we wish you a
prosperous New Year.*

MARY AND WALT

PRECISION CHAMBER AND BARREL WORK

PILLAR BEDDING, BLOCK BEDDING, GLUE INS,
HANDMADE LOADING DIES, BLUEING

COMPLETE BENCHREST RIFLE SERVICES

Now offering NUTCRACKER DIES USING JONES
or WILSON buttons, with barrel orders or complete
rifle orders.

HAMMONDS GUN SHOP

R.D. 4, Box 504, Red Lion, Pa. 17356
(717) 244-7879

TRADING POST

One man's "Junk" is another man's "Collector's Item!" Turn your surplus items into cash with a Trading Post ad. ORDER FROM EDITOR.

Groups of figures, abbreviations and initials count as words. Hyphenated word counts as two words. Name and address of advertiser is counted. Use full words instead of initials and abbreviations and make your meaning entirely clear.

Classified type ads: no display. Rates: 15 cents per word per insertion, prepaid. Minimum charge is \$1.50. Closing date for ads is the 20th of the month preceding publication.

NOT ABLE to shoot anymore. So must sell the following: Heavy varmint class rifle. Hart 1A action, serial #275, Hart barrel, .222 Remington caliber, .244 neck, Hart trigger, Sinclair built, with Leupold 25x scope, Wilson neck die and bullet seater. Only 425 barn burning rounds fired, it tis the lady's paper puncher, \$1100.00. Sporter class rifle, Remington 600 action Hart barrel, 6MM BR caliber, .266 neck, Sinclair built, with Weaver 25x scope, Wilson neck die and bullet seater. Only 900 rounds fired, \$900.00. Heavy varmint rifle, Remington 600 action, Sherer barrel, 6 PPC caliber, .263 neck, Sinclair built, with Weaver 25x scope, Wilson neck die and bullet seater, approximately 1500 rounds fired, \$550.00. Call K.E. Aldridge, Webster City, Iowa (515) 832-2788.

FOR SALE: Sleeved 700, 6PPC. Brown Precision stock. .262 neck, McMillan barrel. Two ounce trigger, Sako extractor, stocked by Rex Reneau. Like new. Mike Bryant, Route #1, Box 165, Wheeler, Texas 79096. (806) 826-5958.

FOR SALE: .22 Caliber, .224 diameter, 1-16 twist Shilen stainless barrel, No. 7 contour, 27 inches long. Less than 200 shots fired. \$90.00. Homer Hart, 2672 Allen Drive, Springfield, Ohio. Phone (513) 325-1187.

I'M STILL looking for a hunter class outfit in .308. Who has one for sale? Herb Aitken, 532 Summit Ave., Eav Claire, Wisconsin 54701.

WANTED; Burns or Beeson bolt for short 700 or 40x, with coned head, and .222 face. Marty Gordon, Rt. 2, Box 102, Hamburg, Iowa 51640. (712) 382-1540.

FOR SALE: got to make some room in my vault. I have 20 benchrest, live varmint, and silhouette rifles to sell — 5 Shilens, 12 Halls, Stolle, and Remington. Smithed by Sinclair, Broughton and Adams. Call or write for a list. Doug Johnson, 8529 Londonderry Lane, Dallas, Texas 75228. (214) 324-5612.

FOR SALE: 4 HV XP-100 sleeved actions, 1 XP-100 barreled action, 1 XP-100 sleeved sporter action. All actions \$250.00 each. 1 sporter XP-100 sleeved action, McMillan stock, Hart barrel, 6x47 chamber, 40x Lyman-Siebert scope, \$4600.00. Jimmy Knox, 1108 N. Main, Carrollton, Mo. 64633. (816) 542-0100 Mornings and weekends.

WANTED: off the shelf 700 action and bolt for 6MM Rem. Box 725, Redmond, Oregon 97756. (503) 548-7609.

FOR SALE; New Stolle Polar action, PPC bolt, with Stolle rings, \$525.00. Remington 722 action, .308 bolt face, \$165.00. Remington 700 BDL varmint stock, \$25.00. Jeff Summers, 4208 Woodvale Drive, Knoxville, Tenn. 37918. (615) 688-6046.

FOR SALE: Miscellaneous back issues of *Precision Shooting* magazine, \$1.00 per copy, plus shipping, write for list. Remington 722 action, \$185.00. Don Howell, Box 66, Gardner, Kansas 66030.

WANTED: XP-100 action, or action body only. Send condition and price to Perry Morton, 325 E. Main St., Warsaw, Indiana 46580. (219) 267-7777 evenings.

WANTED: Unaltered Remington actions. 40X, XP-100, 700 ADL short action, 788, 600, or ? No belted magnums. State details and price. All letters answered. Glynn Paulson, Box 85, Clermont, Iowa 52135.

FOR SALE: Lyman-Siebert 30x scope, like new, \$160.00. (605) 342-4312.

FOR SALE: '78 Chevy van (3/4 ton) converted by/for shooters. Fully equipped with propane fridge and stove, double bed, built in storage including 4 rifle cabinet, cruise control, power steering and brakes, A/C, cassette stereo, new V-8 engine in '83 (25,000 miles since), excellent condition, \$7,500. Call Donalee Price at (213) 328-4226 (home), or 372-1171, extension 204 (office), or write to 1732 Andreo Avenue, Torrance, California 90501.

FOR SALE: Leupold scopes, usually 48 hour delivery, 36X dot. Canjar LP 700 triggers in stock, \$89.00. Mitutoyo 4 inch dial calipers \$47.00. Mitutoyo ball mikes \$55.25. Kelbly scope rings \$53.00. Unertl bases for Kelbly rings, \$20.00. All plus \$3.00 shipping. Seely Masker, 261 Washington Avenue, Pleasantville, New York 10570. (914) 769-2627.

FOR SALE: 40X actioned rifle, Hart 2 oz. trigger, 2 barrels, HV and LV. 200 rounds through the HV, and 500 through the LV Change weight system in butt. Redfield Jr. mounts. \$995.00. Contact Seely Masker, 261 Washington Avenue, Pleasantville, New York 10570. (914) 769-2627.

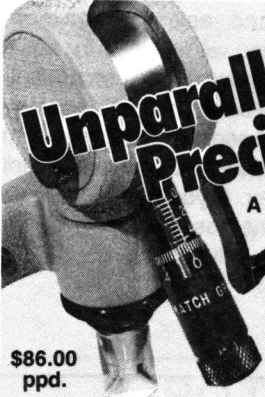
BACK ISSUES

Now available — 1-3 issues \$2.00, 4-11 issues \$1.50 each, 12 or more \$1.00 each. Write James Hart, R.D. 3, Lafayette, N.Y. 13084. Make checks payable to Precision Shooting.

CHANGING YOUR ADDRESS?

Please let us know, well in advance, what your new address will be. Send your old address too — even better, enclose the address label from a recent issue. The Post Office will not forward your copies unless you pay extra postage, but we will see that your "Precision Shooting" reaches you, without interruption, if you notify us six weeks in advance of your move. Write to Precision Shooting, 5735 Sherwood Forest Drive, Akron, Ohio 44319.

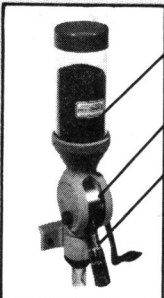
When giving your address please add your Zip Code number.



Unparalleled Precision!

A state-of-the-art powder measure designed for benchrest competition. Here's how it outperforms the rest.

\$86.00 ppd.



- Powder Baffle delivers charge-to-charge uniformity
- Precision machined powder flow areas
- Zero backlash micrometer guarantees precise, repeatable settings
- Comparable features can only be found on expensive custom conversions.

See the #3BR Match Grade Powder Measure at better gun shops or write for FREE full-line catalog!

REDDING

RELOADING EQUIPMENT

114PM Starr Rd., Cortland, N.Y. 13045

DICK MARETZO

Dear Dave:

Thanks for keeping me posted about the latest happenings in the development of the 30-30 case. I have never met Creighton Audette but after reading some of his correspondence I would think that one could throw away his encyclopedia of Bench Rest Shooting and just call Mr. Audette for any information you may need.

I have mixed emotions about expanding the 1986 Benchrest Shooter of the Year contest. I don't know if you are aware of the impact this is having on the economy of this country. A large number of people no longer work on the Fridays, Saturdays or Mondays associated with these designated matches. Several of my patients have asked me if I had offices in Mainville, Lafayette, or St. Louis so that they could have their treatment completed.

I might add to this the fact that these designated matches are having a severe impact on my economy because I just can't resist going to them. There seems to be a special "electricity" in the air at one of these matches similar to the Super Shoot. I am going to draw the line if you designate the club in Alaska. Maybe.

One point of interest for those who are fire forming PPC cases by using Bullseye powder and wax. If you go to your friendly local Dentist and ask him for some CARDING wax you will find life a lot easier. Carding wax is soft enough to press into the neck of the case and it is a little sticky so it will not fall out. I seem to remember some who tried to turn the case upside down into some heated wax. If you can't locate this wax call Seely, he has a batch of it. That he stole from my office.

Recently Overheard

LOU PALMISANO recently came over to the area where the editor and the Gonzo Dentist were cleaning rifles, and tossed a strange looking straight handle brush on our loading bench. The curiosity of the lower orders is easily aroused. "What in hades is that?" "It's a clarinet brush. Your music store carries them. They make a great chamber cleaning item. And when they get dirty, you just toss them into the washing machine, and the pile-like brush is quickly cleaned. Try it." We did try it. Impressive.

At Midlothian, Dick Maretzo gave me a brush . . . a clarinet brush. Mr. Maretzo refused the offered payment, and then added . . . "I should charge you a thousand dollars for all I had to go through to get these." And the story unfolded.

Richard entered a local music store, and asked to see a clarinet brush. One was promptly produced by the clerk . . . who hovered nearby while Richard studied it critically, while trying hard to look knowledgeable about such matters.

The clerk cleared his throat. "Do you play the clarinet, sir?"

"No."

"Ah, you are a new owner of a clarinet, who does not yet play the instrument?"

"No."

"Then . . . ah . . . why do you want a clarinet brush?"

"It's a long story. Look, I'll take eight of these."

"EIGHT? We haven't sold eight clarinet brushes in total since we opened the store years ago. Why do you want eight clarinet brushes, if you don't even play the clarinet?"

"I have friends."

"Ah, do they play the clarinet?"

"No."

As Richard was being handed his parcel (eight clarinet brushes), the clerk made one last attempt to get to the bottom of the puzzle. "Do you play any instrument, sir?"

"Yes. I play the Mongolian tuba."

"The Mongolian tuba?" I'm afraid I've never heard of it."

"Whether you've heard of it or not, that's what I play."

"Who makes this instrument, anyway?"

"Seely Masker, in Pleasantville, New York." And with that, Richard stepped out the door, and was gone.

Somewhere around Mahwah, New Jersey is a music store. I'm going to have to stop in there some time . . . and ask the clerk if he has any sheet music for a Mongolian tuba. We'll drive him crazy . . . in stages.

I can only presume that Seely got a phone call from the clerk. How much for a Mongolian tuba?

And I presume Seely asked the clerk what kind of scope he proposed to mount on it.

And the clerk went home . . . ill . . . at mid day.

But it was still a good day for the store. They sold eight clarinet brushes.

KELBLY, INC.

Manufacturers of - - -

- the Stolle Panda and Polar Actions
- fiberglass stocks
- Kelbly scope rings

We also provide a wide range of gunsmithing services, including chambering and complete rifles.

7222 Dalton Fox Lake Road
No. Lawrence, Ohio 44666
(216) 683-4674

BERGER BULLETS

.224 Cal. 52 - 60 - 65 Gr. \$8.25 per 100
6MM Cal. 60-62-65-68-80 Gr. \$9.00 per 100

Distributor for J-4 Jackets

Lead wire .185 diameter
½ of one per cent antimony
\$25.00 per 25 lb. roll

POWDER

T322 \$70.00 per 8 lb. container
T335 T2208 \$56.00 per 8 pounds

Bullet Making Lube

\$10.00 - 5 oz. jar

UPS Charges Invoiced
Send FFL with order

4234 N. 63rd Avenue
Phoenix, Arizona 85033
(602) 846-5791

Distributor for
Shooters Choice bore cleaner

*Announcing Our
New Location*

FOWLERS

3731 McKelvey Street
Charlotte, North Carolina 28215

Manufacturers of premium quality
benchrest bullets.

Distributor of winning benchrest
equipment and supplies.

Jef and Shirley Fowler
(704) 568-7661

PHIL SAUER

David Brennan, Rex.
King of Editors
Master of Erudition
Fount of Patient Understanding
Humorist of the Age
Shooter Pastmasterium

Why the hell don't you walk on the waters?
(Like you're supposed to)

Your Imperial Majesty:

In response to your query about bore cleaning methods: no meaningful conclusions yet. As so many others are doing I have been trying to develop a brushless method for the job hoping to avoid damage to the crown. However; to satisfy me the method has to be quick. Bore cleaning must not be allowed to cut into conversation time. After all, why do I go to matches?

My effort is continuing sporadically as time and inspiration dictate. I consider fouling to be a combination of several materials which do not yield to any one cleaning procedure (at least I don't think they do). I assume there is guiding metal smeared on the bore in a succession of layers interspersed with combustion products and primer abrasives. Also there is a collar of something in the first inch or so in front of the throat. My understanding is that this is the residue of flash suppressants incorporated to a greater or lesser extent in at least some of our powders.

Discussing the different residues one at a time:

1. Guiding Metal — can be removed by oxidizing it to a water soluble material and wiping the solution out of the bore with a patch or it can be removed with an abrasive (hopefully a soft one). Both of these are satisfactory for speed.

2. Combustion Products — can be

removed quickly by Butyl Cellosolve or any one of a number of solvents or detergents.

3. Primer Abrasives — easily removed by a cloth patch wet with any detergent or solvent. A divergence of opinion exists with regard to disposition of this material. Both sides of the question have good arguing points. The first school says the stuff is abrasive and should be removed with a wet patch before any other cleaning effort is made. Presumably if that stuff is in the bore when a rod is shoved back and forth it can only harm the throat and bore. The second school points out that an abrasive is just what is needed to scrape all the other fouling loose so it can be wiped out easily. They also hold that the abrasive tends to maintain a surface similar to that which the long suffering barrel smith created by lapping. This surface is thought to reduce the tenacity with which jacket fouling adheres to the bore surface.

4. Flash Suppressant Collar — fortunately this is water soluble and is quickly removed by any solution containing water; also quickly removed by J-B compound or other abrasive.

5. Mystery Coating — there is one other coating I haven't identified as yet nor have I fully investigated the ways in which it can be removed. One can notice its presence by wiping the primer residue out of the bore with a wet patch as in (3.) above and following with two dry patches. If the "M" coating is there, there will be a definite sticky feel to the bore. Since the first patch was wet with a good powder residue solvent, presumably this remaining coat is not very soluble in that solvent. The sticking exists throughout the bore not just at the throat. The coat can be removed quickly with a few strokes of a sharp bronze brush

or a patch loaded with abrasive. I have not tested it yet to see if it is water soluble. That comes next.

My reaction to all of this is that if I want to take advantage of the capabilities of all these materials I wind up with a long cleaning procedure and less time to admire the sound of my own voice. So my effort has been aimed at combining the helpful characteristics of the cleaning products I'm familiar with in such a way as to devise a quick and complete cleaning method. As I stated above results are inconclusive thus far. Some of the people testing the proto type preparations report that some barrels seem to prefer other procedures. Of course, I don't think that's good enough. So maybe next time.

One point must be made with regard to all this geliederfrankerei. Some of the real shooters are putting together aggregates as good as my bragging groups. So bore cleaning technology may be a tempest in a teapot on the level I'm investigating.

Anyway, I don't want to write about bore cleaning. I've got a couple of other things that have been simmering for a while and may see the light presently. One is some information I developed on the way the throat deforms during the first 500 shots or so. Also have been making an effort to describe the proper way to chamber a barrel when mounted in the headstock of the lathe. This one is difficult to describe clearly without benefit of arm waving and facial contortion. I've torn up my first three attempts but they keep getting better. The last subject, which is in the sketching stage only, is a design for an unlimited rear rest that can be built to function the way one should.

If your luck runs out you may see some of this stuff this winter.



NRA GUNSMITHING PROGRAM
AT

ROCHESTER INSTITUTE OF TECHNOLOGY

1986 RIT/NRA SUMMER GUNSMITHING WORKSHOPS

FEATURING: **JERRY HART** — HART RIFLE BARRELS
ACTION PREPARATION — CUSTOM CHAMBERING
AL HAUSER — BLUEING — POLISHING

FOR INFORMATION ON THESE AND OUR OTHER SUMMER OFFERINGS,
WRITE:



Dr. Robert H. Johnston, Dean
College of Fine and Applied Arts
Rochester Institute of Technology
P.O. Box 9887
Rochester, NY 14623-0887

PYRO-DUX

We wish,
for our customers,
friends, and everyone in
the rifle accuracy sports
*good health, good shooting
and good friends*
in 1986.

*Pyro Dux treatment will give
longer barrel life, higher velocity,
and improved accuracy.*

A.E. PENNEBAKER CO., INC.
(803) 235-8016 or write
P.O. Box 1386,
Greenville, S.C. 29602

Some Eastern Region Pioneers

by
A. H. Angerman

OMAR RINEHART — Dedicated heavy bench rest rifle shooter though no easy mark in any of the Varmint classes. One of the "Reed's Run Ohio Gang", a world record holder, a 100 yard NBRSA champion in 1957 and a consistent small aggregate competitor at every shoot he attended.

IRV POTTER — Never a National champion but a local one over and over. A true devotee of bench rest shooting and a friend willing to part with any useful information that he thought would help a new shooter **without** having to be asked. Irv, standing, seems to be satisfied with his performance at Johnstown, N.Y.



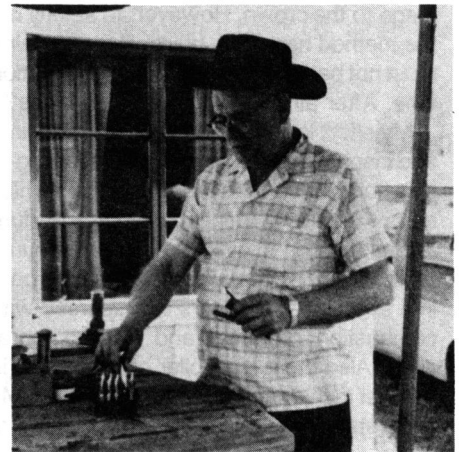
Omar and Irv

HARVEY DONALDSON — What more can be said or claimed to Harvey's credit? A very early competitive shooter, Harve was a staunch supporter of all things bench rest and an honorary member of the Bench Rest Hall of Fame. Here he sits contentedly with inseparable cigar, having finished his usual trimming of low hanging birch branches at the Johnstown, N.Y. range.



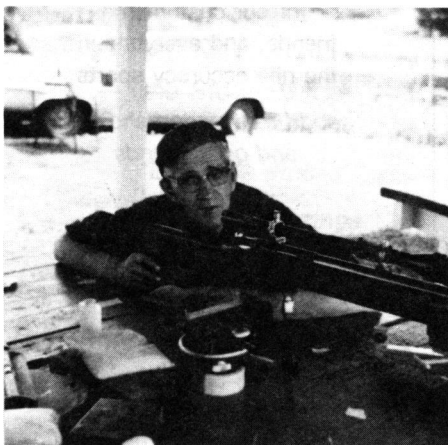
Harvey

"COWBOY" RUCKER — Probably the most colorful, crusty, man on the heavy gun line or any other line. "Cowboy" got his nickname because he never failed to show up wearing his favorite head attire. His goal was to make as many "top twenties" as possible, and he did — about eight of them. His wife, "Rosie" was acclaimed one of the earliest computer-minded stat crew persons in bench rest history.



"Cowboy"

HAP ZEISER — As of this date, Hap is still the holder of the world record NBRSA and IBS five shot heavy bench rest 100 yard group. Fired in 1958 it measured .063". Hap is best known perhaps as the efficient no-nonsense boss man of Wally Hart's Council Cup, Pa. target detail for many years. He regularly enlarged all of my groups using a big round stick.



Hap

GEORGE AND BERNICE McMULLEN — Also members of the famous "Reed's Run Ohio" crew. George and Bernice were one of the best known husband and wife teams on the line. Both were serious contenders at any shoot and collected many honors along the way. Bernice was secretary of NBRSA for about fifteen years.



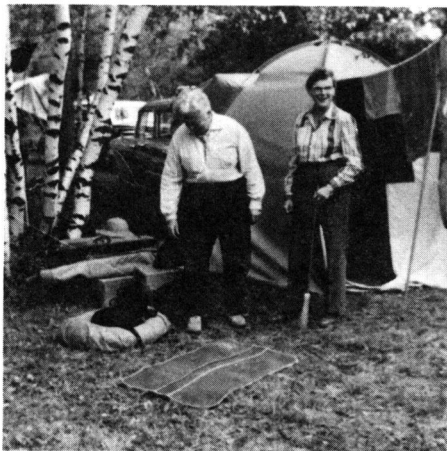
Bernice and George

BRUNO BOROZEWSKI — Bruno was obsessed with the thirty caliber heavy gun. One of the early experimenters and innovators. He tried weights of all description to dampen barrel vibration and was a persistent bull pup stock designer. Note the massive scope mounts on his rifle. Bruno was a heavy rifle champion in 1962 and was President of NBRSA from 1965 to 1966.



Bruno

CRAWF HOLLIDGE — Crawford was a world record holder, the famous Ernest Stuhlshuter columnist for *Precision Shooting* magazine for many years, an avid experimenter and gadgeteer and maker of "Spintru" bullets. He was an all around pioneer and friend of all struggling beginners. Here he is at Johnstown with wife Mary and friend "Jock".



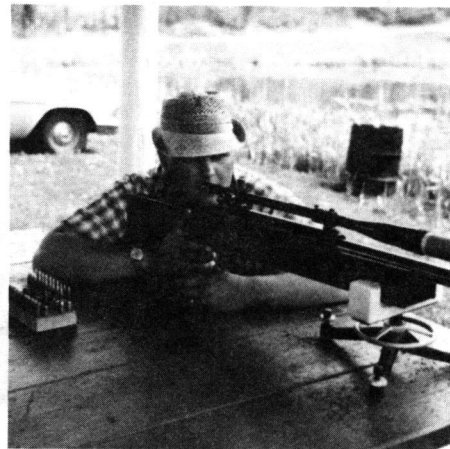
Crawf

RALPH STOLLE — With a modest beginning in machine shop practice, Ralph emerged as one of the greatest custom action and rifle makers in the world. A meticulous craftsman, Ralph and his son Eldon developed a style of shooting that "cleaned up" at almost every bench rest match in the 1960-1970 era.



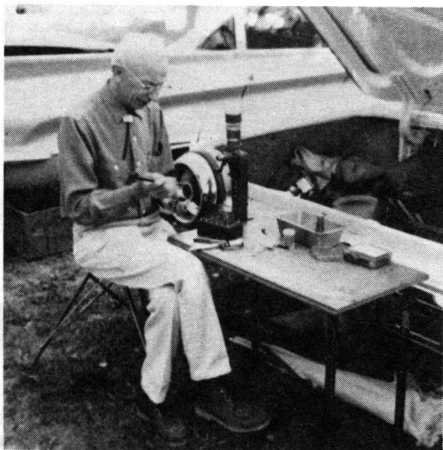
Ralph

GEORGE KELBLY — George probably started shooting when he was about ten years old. He was the National heavy bench rest champion in 1973 and amongst the top twenty listings for many years. George was President of NBRSA for four years, Deputy Director of the Eastern Region for several terms and is the owner-operator of one of the finest bench rest ranges in the country.



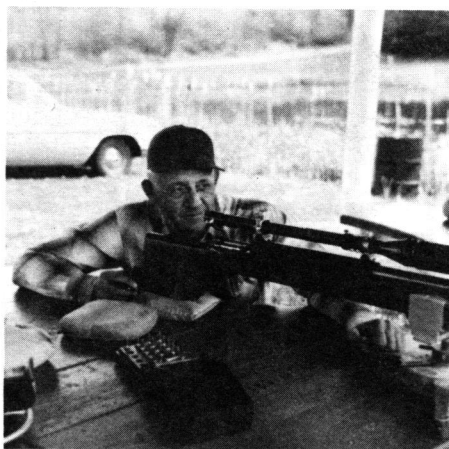
George

PAUL GOTTSCHALL — Paul was probably one of the greatest bench rest shooters of all time regardless of statistics, points or credits. He was an inventive precision genius, a superb tool and die maker, machinist, tinkerer and experimenter. He along with Sam Wilson was one of the first to bore jackets to uniform wall ($\pm .0001''$), and also the first to use **two** scopes on his rifle. He quit this saying, "I saw too much".



Paul

BOB HART — What more can be said about Bob? Founder of the beautiful Council Cup range in Wapwallopen, Pennsylvania, riflesmith, manufacturer of custom actions and rifles, plus accessories for the bench rest shooter. Bob was a founder and President of IBS and is an honorary member of the Bench Rest Hall of Fame.



Bob

SEELY MASKER

Statement of Company Policy for 1986

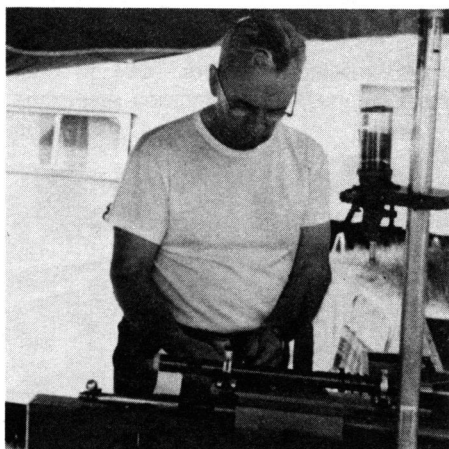
We will be introducing a new service for shooters in 1986. We are now repairing old ice-boxes, Japanese refrigerators, player pianos, Mongolian tubas, and solar-powered pocket calculators. Cheerful estimates at any hour of day or night. Old fashioned service; we make house calls, no distance too far. Discounts to NBRSA, IBS, Masons, Knights, B'nai Brith, and Provisional Wing of the Irish Republican Army.

Somewhere in the spring months we will begin stabling horses at home, as well as starting a baby-sitting service for grimy little urchins at the benchrest matches. We will also board pets in our camper during matches. No pythons, please. We will also make runs into town for beer, ice and potato chips between relays.

Sometime in the fall, we will introduce a new line of Seely Masker designer jeans, Seely Masker sweatshirts, Seely Masker belt buckles, and Seely Masker jogging shoes. Naturally, discounts to Seely Masker Fan Club (paid up) members.

Happy New Year! WIRE SEELY, PLEASANTVILLE Happy New Year!

AL GLENDENING — Why Al? Because he was a deeply devoted friend of bench rest shooting, a true experimenter, (note the use of a bedding block and off the barrel scope mounts), and one of the earliest 6mm shooters. Al was convinced that the six millimeter caliber would take over and this was long before it happened.



Al

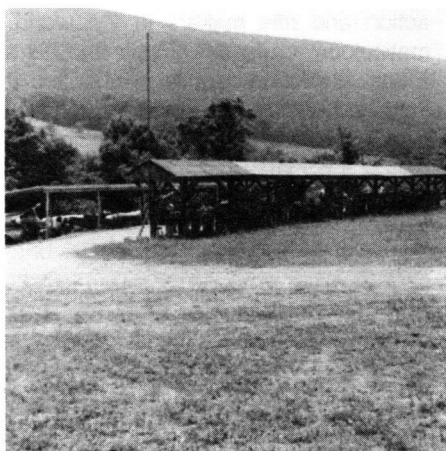
So what happens at the close of a shoot? Here we see Wally Hart's back, Eldon Stolle, unidentified shooter, Paul Gottschall, Bruno, Ralph, and Bill Purcell discussing the days events over a box of empty "cola" cans.



Group at Chippenwa

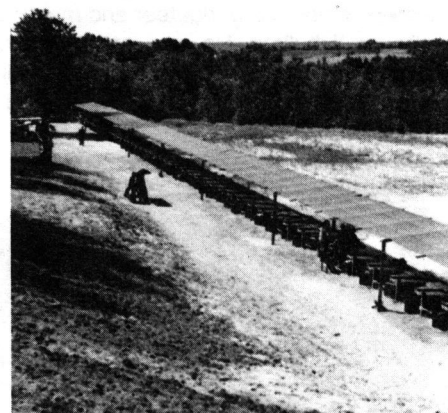
AND THEN — Who could forget people we missed with the camera such as Homer Culver, Cline Deere, Ralph Pride, Gene Beecher, Rick Hornbeck, Ted Holmes, W.M. Brown, his measuring wife Marie, Clair Taylor, Don Robbins, Ted Boughton, and John Collins? Plus others of equal or higher stature.

WHERE THEY PIONEERED



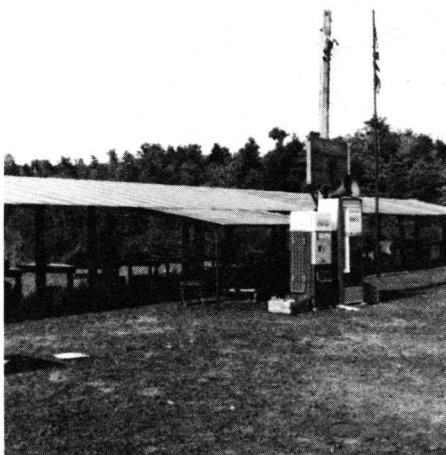
LEWISTOWN, PA.
1959

Served the best meals in the Eastern circuit. The Blue Rock Club.



JOHNSTOWN, N.Y.
1955

Birthplace of modern benchrest shooting. Also known as the Pine Tree.



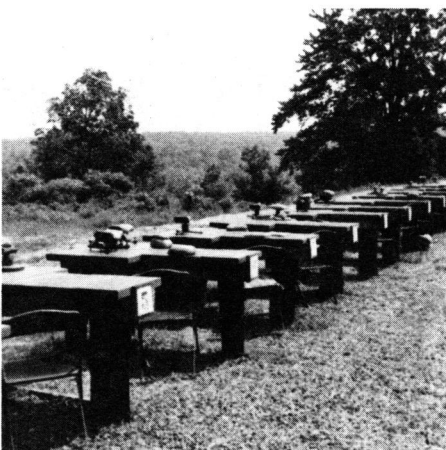
DuBOIS, PA.
1959

A cliff on one side made doping very tough.



STAUNTON, VA.
1964

Blessed by the Buckhorn Inn just down the road.



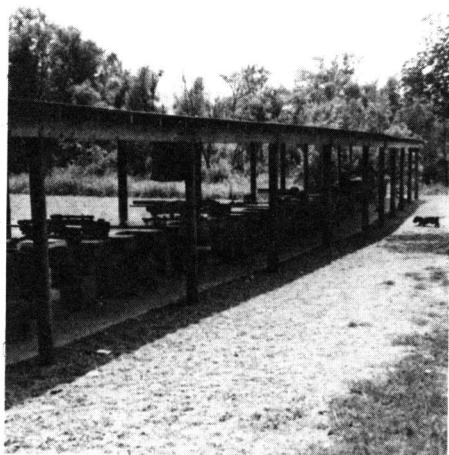
WILKES BARRE, PA.
1957

Wonder what happened when it rained?



AUGUSTA, OHIO
1963

Celebrating its 30th anniversary in 1982. Home of many famous pioneers. Also known as "Brownies" or Reed's Run.



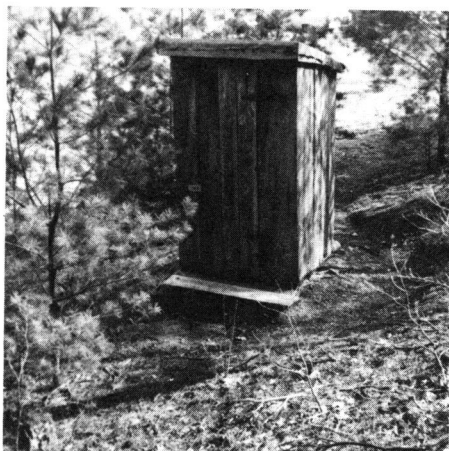
EASTON, OHIO
1964

The Chippewa Club had the only 300 meter facilities for many years.



FASSETT, PA.
1964

The windiest trickiest of all. Southcreek Rod and Gun Club.



FACILITY

All bench rest ranges offered the ultimate in sanitary facilities. Here we see a forelorn cabinet of relief. A note admonished shooters to report all crossfires to the range officer immediately. Another unit advised shooters to hold up fire when any detectable evidence of the structure was revealed by the wind.

Wiesbaden Federal Republic of Germany

by Skip Gordon

September 28-29, 1985

There were thirty one shooters on hand for the annual German Championships in Wiesbaden, representing six countries: Austria, France, Germany, Italy, Switzerland and the U.S. The latter group was made up of Walt Berger, Stan Buchtel and George Kelbly who made the cross channel pilgrimage following the trip to Bisley.

The event, for Heavy Varmint, consisted of a warm up and five record matches each day; 100 meters on Saturday and 200 on Sunday.

The honors on Saturday were taken by Mr. Mamut (Germany) with a .2410. Jean-Jacques Cristeau (France) was second with a .2447, and the lovely Erika Boell

(Germany) took third with a .2604. Erika also had the small group of the day, a tidy .116. The top placing Yank was Walt Berger whose .2783 was good for sixth place.

Sunday belonged to France. Cristeau was first with a .2771, and Mimi Cauvin was second with a .2887. George Kelbly placed third with a .2958. The small group was Walt Berger's .344.

Grand Aggregate honors, again, went to the French. Cristeau won it with a .2609; Cauvin placed second with a .3016, followed closely by Kelbly's .3067. Rounding out the Top 5 were Boell with a .3092 and Claude Braconi (France) with a .3095.

Walt Berger was sixth with a .3267, and Stan Buchtel placed 17th with a .3728.

George, Stan and Walt report their time in Germany was, again, "the stuff of memories". They were entertained in the homes of shooters, squired about the area by enthusiastic hosts, and generally treated like old friends. They also noted that all of the European shooters are looking forward to the American group's presence in Italy and Germany next September. Aren't we all?

FAIRCHANCE GUN CLUB

Smithfield, Pa.

We wish all the Precision Shooting readers — wherever they may be — a Very Happy New Year in 1986.

A special thanks to all who shot with us in 1985 . . . we do hope that you will return in 1986. And bring a friend.

Roye and Ray



IBS News

Edited by Dave Brennan

1985 IBS NATIONALS

Nate Boop - Light varmint winner
Jerry Masker - Heavy bench winner
Dick Maretzo - Heavy varmint winner
Two gun crown to Glenn Newick
Three gun crown to the Gonzo Dentist

Dateline, Johnstown, New York, August 15-18, 1985, and generally good weather prevailed for the IBS championships, with one brief (but quite imposing) exception. A hundred and twenty five shooters were on the grounds, in varying stages of disrepair, including Lowell Frei and Dennis Wagner, who had flown in from far off climes to keep Dick Maretzo honest in the Benchrest Shooter of The Year competition. Beating the dentist on his home range is no small task . . . a theory that was to be adequately proven to the assembled multitude.

The light varmint 100 yard stage started off the festivities, with 95 shooters in the starting gate for the run for the roses. Glenn Newick put together groups of .340, .206, .104, .125 and .220, for a .1934 range agg, and the yardage win. Dennis Wagner was right on the Newick heels, with a .1954 figure, and Nate Boop wasn't far behind, via a .1962 agg. Balance of top twenty: 4.) Allie Euber .2100, 5.) Lester Bruno .2112, 6.) Dick Maretzo .2120, 7.) Jim Fedorowich .2188, 8.) Ed Goff .2284, 9.) Jim Stekl .2390, 10.) George Kelbly .2444, 11.) Seely Masker .2532, 12.) Harlan Hoffer .2542, 13.) Tom Horenburg .2558, 14.) Tony Boyer .2588, 15.) Don Gentner .2630, 16.) Lowell Frei .2670, 17.) Joe Vinci .2700, 18.) Geza Nagy .2722, 19.) Joe Parker .2470, 20.) John Chrisman .2762. Dennis Wagner took small group honors with an official screamer .089.

When they hung the targets out at a further distance, Ed Goff was to grab the yardage honors with a .2140 figure. Nate Boop was again very much in the hunt, with a .2310 agg, and Lowell Frei found some mirage to guide him to a .2556 agg. Balance of top twenty: 4.) Jim Oliver .2594, 5.) Charlie Fountaine .2708, 6.) Jim

Fedorowich .2776, 7.) Faye Boyer .2796, 8.) Brian Hollister .2814, 9.) Brian Rubright .2819, 10.) Glenn Newick .2861, 11.) Tony Boyer .2878, 12.) Jack Sutton .2893, 13.) Joe Parker .2924, 14.) Lee Euber .2979, 15.) Myles Hollister .3004, 16.) Allie Euber .3084, 17.) Lester Bruno .3090, 18.) Seely Masker .3090, 19.) Harold Pickwick .3111, 20.) Chet Mossakowski .3173. Small group was Glenn Newicks .125 sparkler, which is a substantial amount below the existing IBS record.

In the light varmint grand agg, the steady shooting of Nate Boop, at both yardages, was enough for the first place trophy. Top twenty: 1.) Nate Boop .2136, 2.) Ed Goff .2212, 3.) Glenn Newick .2397, 4.) Jim Fedorowich .2482, 5.) Allie Euber .2592, 6.) Lester Bruno .2681, 7.) Lowell Frei .2613, 8.) Faye Boyer .2692, 9.) Jim Oliver .2704, 10.) Brian Hollister .2811, 11.) Seely Masker .2811, 12.) Brian Rubright .2818, 13.) Charlie Fountaine .2819, 14.) George Kelbly .2828, 15.) Joe Parker .2832, 16.) Dick Maretzo .2863, 17.) Dennis Wagner .2871, 18.) Jack Sutton .2930, 19.) Lee Euber .2932, 20.) Myles Hollister .2962.

In the heavy bench class, with 70 shooters, at 100 yards, Jerry Masker and his rail gun managed to nose out John Chrisman, a bag gun shooter, in a close call at the wire, .2722 to .2728. Bob White took the third place position with his .2762, and from there it was quite a distance to the rest of the lads: 4.) Dick Maretzo .3000, 5.) Myles Hollister .3028, 6.) Tony Margelewicz .3180, 7.) Jim Stekl .3238, 8.) Phil Jones .3242, 9.) Rick Hornbeck .3292, 10.) Dennis Wagner .3364, 11.) Ed Goff .3412, 12.) Geza Nagy .3438, 13.) Frank Obrochta .3440, 14.) Phil Sauer .3454, 15.) Dave Brennan

.3490, 16.) Lowell Frei .3498, 17.) Jim Hart .3512, 18.) Carl Lynn .3528, 19.) Allie Euber .3574, 20.) Lester Bruno .3602. Small group was Myles Hollister's .180.

At 200 yards, Jim Hart was to be a surprise winner, via a .411 agg figure. Those following Mr. Hart included: 2.) Bob DeMonstoy .422, 3.) Myles Hollister .4508, 6.) Jerry Masker .4539, 7.) Dennis Wagner .4613, 8.) Lowell Frei .4665, 9.) Bob White .4710, 10.) Phil Jones .4717, 11.) Dick Maretzo .4750, 12.) Allie Euber .4773, 13.) Ed Goff .4776, 14.) John Chrisman .4845, 15.) Gary Ocock .4845, 16.) Brian Rubright .4877, 17.) Jim Green .4934, 18.) Lester Bruno .5010, 19.) Jim Meyer .5093, 20.) Rick Hornbeck .5097. Small group was D. Jones .448.

Grand agg honors went to Jerry Masker, for a .3630 figure, and probably did quite a bit to wipe out the disappointment of a close-but-no-cigar second place finish at Midland. Top twenty from that point: 2.) Bob White .3736, 3.) Myles Hollister .3730, 4.) John Chrisman .3786, 5.) Jim Hart .3811, 6.) Dick Maretzo .3875, 7.) Phil Jones .3979, 8.) Dennis Wagner .3988, 9.) Lowell Frei .4081, 10.) Ed Goff .4094, 11.) Allie Euber .4173, 12.) Jim Stekl .4176, 13.) Tony Margelewicz .4187, 14.) Rick Hornbeck .4194, 15.) Bart Weider .4217, 16.) Bob DeMonstoy .4229, 17.) Lester Bruno .4306, 18.) Gary Ocock .4321, 19.) Jim Oliver .4451, 20.) Jim Meyer .4452.

In the heavy varmint class, with 125 shooters, at 100 yards Allie Euber managed to beat Dick Maretzo by a paper-thin margin; .2156 to .2158. Balance of top twenty: 3.) Joe Parker .2254, 4.) Jim Borden .2286, 5.) Glenn Newick .2286, 6.) Jack Sutton .2310, 7.) Jim Greenawalt .2360, 8.) Bob DeMonstoy .2434, 9.)

Continued on next page

IBS INTERNATIONAL CHAMPIONSHIP
AUGUST 15-16-17-18, 1985

PINE TREE RIFLE CLUB
JOHNSTOWN, NEW YORK

POSITION	NO.	NAME	CAL	ACTION	SCOPE	BIOSOL	OWN. SMITH	SPRINGER	CASE	LOAD	BULLET	POWER
1	106	NATHAN GOOP	6 PPC	HALL	LEUPOLD	HART	WEIDER	WEIDER	SAKO	H322	EUBER	205M
2	227	ED GOFF	6 PPC	HART	LEUP 36	MCM	SELF	SELF	SAKO	27-H322	EUBER	205
3	138	GLENN NEWICK	6 PPC	CPS	LEUP 36	HART	WHITE	WHITE	SAKO	28-H322	BRUNO	F205
4	214	HARRY FEDOROWICH	6 PPC	STOLLE	LEUP 36	MCM	WHITE	WHITE	SAKO	28-H322	REM	F205M
5	234	ALAN EUBER	6 PPC	RPM	LY/SIB	HART	SWINDEHART	SCS	SAKO	29.5N201	EUBER	205
6	125	LES BRUNO	6 PPC	XP100	LEUP	HART	MASKER	REM	SAKO	27.5 H322	BRUNO	205
7	102	LOWELL FREI	6 PPC	HALL	LEUP	HART	GENTNER	SELF	SAKO	28 T322	FREI	FED
8	245	FAYE BOYER	6 PPC	XP100	LEUP	HART	HALVEY	FREI	SAKO	28 H322	EUBER	205M
9	136	JARES OLIVER	6 PPC	STOLLE	LEUP	HART	SPENKER	BROWN	SAKO	28 H322	EUBER	205M
10	140	BRIAN HOLLISTER	6 PPC	STOLLE	LY/SIB	HART	MASKER	MASKER	SAKO	28 H322	HOLLISTER	205M
11	118	SEELY MASKER	6 PPC	HART	LEUP	HART	HOLLISTER	HART	SAKO	28 T322	ROBSON	205
12	115	BRIAN RUBRIGHT	6 PPC	WICHITA	LEUP	HART	MASKER	MASKER	SAKO	29.5N201	EUBER	F205
13	222	CHARLES FOUNTAINE	6 PPC	REM 40X	LEUP	HART	WIEDER	SELF	SAKO	27.5 H322	RUBRIGHT	205M
14	206	GEORGE KELBY	22 LK	STOLLE	LY/SIB	HART	HOLLISTER	BROWNELL	SAKO	28 H322	EUBER	F205
15	110	JOE PARKER	6 PPC	700	LEUP	HART	KELBY	DELANNO	REM	N201	KELBY	205M
16	204	BRIAN HOLLISTER	6 PPC	SHKEN	LEUP	HART	MASKER	MASKER	SAKO	27.5 H322	EUBER	FED
17	133	DENNIS WAGNER	6 PPC	STOLLE	PREMER	HART	MASKER	MASKER	SAKO	29.5 N201	EUBER	F205
18	246	JACK SUTTON	22	HART	LY/SIB	HART	WAGNER	WAGNER	SAKO	28 T322	WAGNER	F205
19	134	LEE EUBER	6 PPC	HART	LY/SIB	HART	HART	HART	SAKO	25 T322	BERGER	F205
20	209	MYLES HOLLISTER	6 PPC	HART	LY/SIB	HART	MASKER	MACHILLAN	SAKO	28 T322	EUBER	205
					LEUP	HART	SELF	ROBSON	SAKO	29.5 N201	ROBSON	205

1985 IBS NATIONALS

Continued from page 34

Brian Hollister .2442, 10.) Carl Lynn .2470, 11.) Jim Greer .2490, 12.) Dave Brennan .2500, 13.) Jeanne Lynn .2520, 14.) Harlan Hoffer .2554, 15.) Oscar Hawkins .2578, 16.) Bob White .2612, 17.) Don Gentner .2632, 18.) Norm Mansfield .2638, 19.) Paul Hart .2642, 20.) Nate Boop .2690.

At 200 yards, Tony Boyer who usually struggles when at the Johnstown range, must have suddenly figured out something that had previously eluded him, as he grabbed the yardage honors with a .2551 figure, good enough to shade Bill Rowley's .2613 and Don Gentner's .2747. From there: 4.) Dick Maretzo .2830, 5.) Dennis Wagner .2922, 6.) Harlan Hoffer .2987, 7.) Lowell Frei .3053, 8.) Sal Ventimiglia .3065, 9.) Paul Hart .3069, 10.) Jeanne Lynn .3085, 11.) Jim Burks .3171, 12.) Jim Greer .3201, 13.) Dave Brennan .3223, 14.) Ed Hord .3239, 15.) Ward Tarasek .3310, 16.) Glenn Newick .3321, 17.) Norm Mansfield .3332, 18.) Keith White .3369, 19.) Jim Oliver .3383, 20.) Jim Stekl .3424. Small group was Nate Boop's .218

Heavy varmint grand agg, and Dick Maretzo grabbed the big trophy, by way of a .2494 grand agg. The vast multitude trailing included: 2.) Bill Rowley .2658, 3.) Don Gentner .2689, 4.) Harlan Hoffer .2770, 5.) Jeanne Lynn .2801, 6.) Glen Newick .2804, 7.) Dennis Wagner .2825, 8.) Jim Greer .2845, 9.) Paul Hart .2855, 10.) Tony Boyer .2856, 11.) Dave Brennan .2861, 12.) Jim Borden .2908, 13.) Norm Mansfield .2985, 14.) Brian Hollister .2988, 15.) Lowell Frei .2995, 16.) Jim Burks .3059, 17.) Jack Sutton .3060, 18.) Harry Hope .3109, 19.) Keith White .3153, 20.) Ed Goff .3171.

In the two gun category, Glenn Newick's third place finish in light varmint, and sixth place in heavy varmint were enough to take the trophy. Top twenty: 1.) Glenn Newick .2600, 2.) Dick Maretzo .2678, 3.) Ed Goff .2691, 4.) Lowell Frei .2804, 5.) Dennis Wagner .2848, 6.) Harlan Hoffer .2869, 7.) Brian Hollister .2899, 8.) Allie Euber .2911, 9.) Nate Boop .2947, 10.) Jim Oliver .2951, 11.) Don Gentner .2960, 12.) Jim Fedorowich .2984, 13.) Jack Sutton .2995, 14.) Tony Boyer .3043, 15.) Seely Masker .3070, 16.) Bill Rowley .3081, 17.) Bart Weider .3133, 18.) Norm Mansfield .3154, 19.) Joe Parker .3184, 20.) Lester Bruno .3197.

In the three gun category, Dick Maretzo, despite the handicap of a cross-

Continued on next page

1985 IBS NATIONALS

Continued from page 35

fire penalty (that's what comes from hanging around with the Editor for a period of time) came on to pick up the marbles. Top twenty: 1.) Dick Maretzo .3077, 2.) Ed Goff .3159, 3.) Dennis Wagner .3228, 4.) Lowell Frei .3230, 5.) Allie Euber .3331, 6.) Glenn Newick .3371, 7.) Jim Oliver .3451, 8.) Bart Weider .3494, 9.) Harlan Hoffer .3536, 10.) Bob White .3566, 11.) Lester Bruno .3567, 12.) Jack Sutton .3571, 13.) Nate Boop .3584, 14.) Tony Boyer .3584, 15.) Myles Hollister 3616, 16.) Jerry Masker .3658, 17.) Brian

Continued on next page



INTERNATIONAL
BENCHREST SHOOTERS

IBS OFFICERS

PRESIDENT

James F. Borden
R.D. #1 Box 244A
Tunkhannock, PA 18657
Phone: 717-833-2234

1st VICE PRESIDENT & MATCH SCHEDULE

Dennis Collins
R.D. #4, Box 374
E. Stroudsburg, Pa. 18301
Phone: 717-424-8761

2nd VICE PRESIDENT

Roger Gower
R.D. #1, Box 363
Effort, Pa. 18330
Phone: (215) 681-9306

TREASURER

Robert DeMonstoy
1 Pioneer Rd.
Painted Post, NY 14870
Phone: 607-962-2240

SECRETARY

Tony Margelewicz
119 W. Main Street
Nanticoke, PA 18634
Phone (717) 735-1038

PAST PRESIDENT

Robert A. White
R.D. 1 North Rd.
Chester, NJ 07930
Phone: 201-879-5662

RECORDING SECRETARY

Joan Borden
R.D. #1 Box 244 A
Tunkhannock, PA 18657
Phone: 717-833-2234

IBS EDITOR

David D. Brennan
37 Burnham Street
East Hartford, Conn. 06108
Phone: (203) 289-8775
Work (203) 643-1157

PINE TREE RIFLE CLUB
JOHNS TOWN, N.Y.

IBS INTERNATIONAL CHAMPIONSHIP
AUGUST 15-16-17-18, 1985

HEAVY VARMINT GROUND AGGREGATE

POSITION	NO.	NAME	CAL	ACTION	SCOPE	BARREL	GUN- SMITH	STOCK	CASE	LOAD	BULLET	PRIMER
1	204	RICHARD MARETZO	6PPC	SHILEN	LEUPOLD	HART	MASKER	MASKER	SAKO	29.5 N201	EUBER	F20S
2	243	BILL ROWLEY	6PPC	HALL	LY/SIEB	WISERMAN	HART	HART	SAKO	28 H322	EUBER	F20S
3	113	DON GENTNER	6PPC	HART	LEUPOLD	HART	WIEDER	GENTNER	SAKO	28.5 H322	DOCK	FED
4	121	HARLAN HOFFER	6PPC	HALL	LEUPOLD	HART	MASKER	MASKER	SAKO	27.7 T322	EUBER	FED
5	138	GLENN NEWICK	6PPC	CPS	LEUPOLD	HART	WHITE	WHITE	SAKO	28.0 H322	BRUNO	F20S
6	142	JEROME LYNN	6PPC	HART	LEUPOLD	HART	LYNN	HART	SAKO	25 4198	LYNN	20S
7	133	DENNIS WAGNER	6PPC	STOLLE	LEUPOLD	HART	SELF	SELF	SAKO	28 T322	SELF	F20S
8	217	JAMES GREER	6PPC	HART	LEUPOLD	HART	MASKER	HALL	SAKO	28 H322	EUBER	F20S
9	247	PAUL HART	6PPC	HALL	LEUPOLD	HART	HART	HART	SAKO	26.5 T322	BERGER	20S
10	145	TOMY BOYER	6PPC	HART	LEUPOLD	WISERMAN	HOLLISTER	SELF	SAKO	28.5 T322	EUBER	F20SM
11	129	DAVID BRANNAN	6PPC	HART	PREMIER	WISERMAN	MASKER	SINGLAR	SAKO	29.5 N201	EUBER	REM7 1/2
12	342	JIM BORDEN	6PPC	HART	LEUPOLD	HART	MASKER	HART	SAKO	27.7 T322	BRANNAN	F20S
13	128	NORMAN MANSFIELD	6PPC	40X	LEUPOLD	HART	MASKER	SELF	SAKO	28 H322	BRUNO	F20SM
14	140	BILLIAM HOLLISTER	6PPC	40X	LY/SIEB	HART	HOLLISTER	MASKER	SAKO	26 T322	ROSSINACH	20S
15	102	LOWELL FREI	6PPC	STOLLE	LEUPOLD	HART	HARNEY	PREI	SAKO	28 T322	FREI	FED
16	107	JIM BURKS	6PPC	MEYER	LEUPOLD	MILLMAN	MALSBY	SELF	SAKO	27.6 H322	SELF	FED
17	246	JACK SUTTON	6mm	HART	LY/SIEB	HART	HART	HART	SAKO	27.5 T322	BERGER	F20S
18	109	HARLEY HOPPE	6PPC	SW700	LY/SIEB	HART	SINGLAR	SELF	SAKO	28 H322	STEWART	20SM
19	216	KEITH WHITE	6PPC	CPS	LEUPOLD	HART	WHITE	WHITE	SAKO	28 H322	BRANNAN	F20S
20	227	ED GOFF	6PPC	HART	LEUPOLD	MCM	SELF	SELF	SAKO	27 H322	EUBER	20S

PINE TREE RIFLE CLUB JOHNSTOWN, NEW YORK

CHAMPIONSHIP AUGUST 15-16-17-18, 1985

IBS INTERNATIONAL

HEAVY BENCH GRAND AGGREGATE

POSITION	NO.	NAME	CAL.	ACTION	SCOPE	MODEL	CAM-SMITH	STOCK	CASE	LOAD	BULLET	POWER
1	148	GERALD MASKEE	6 PPC	WIKITA	LY/SIES	HART	MASKEE	HALL	SAKO	245 N201	EUBER	205M
2	108	BOB WHITE	6 PPC	CPS	LYMAN	HART	WHITE	HALL	SAKO	28 H322	BRAND	F205
3	209	MYLES MULLISTER	6 PPC	HART	LYMAN	HART	SELF	MASKEE	SAKO	31 H201	ROUSMAN	205
4	116	JOHN CHRISTMAN	6 BR		VMETL	PLANNON	SELF	BRENER		31 H325	SELF	205M
5	249	JAMES HART	6 PPC	HART	LEUPOLD	HART	HART	HART				
6	204	EDWARD MARETZO	6 PPC	WIKITA	LEUPOLD	HART	MASKEE	HALL	SAKO	245 N201	EUBER	F205
7	123	PHIL JONES	22 PPC	HART	LYMAN	HART	SELF	SELF	SAKO	26 H322	JONES	FED
8	133	DENNIS WAGNER	6 PPC	STOLLE	LEUPOLD	HART	WAGNER	WAGNER	SAKO	28 T322	WAGNER	F205
9	102	LOWELL FREI	6 PPC	HALL	LEUPOLD	HART	BROUGHTON	HALL	SAKO	28 T322	FREI	FED
10	227	ED GOFF	6 PPC	HART	LEUPOLD	HART	SELF	SELF	SAKO	27 H322	EUBER	205
11	234	ALAN EUBER	6 PPC	STOLLE	LY/SIES	HART	MULLISTER	SELF	SAKO	28 T322	EUBER	205
12	233	JIM STEKL	6 PPC	XP100	LEUPOLD	HART	HALL	HALL	REM	30-2 N201	REM	205M
13	221	TOMY MARGELBACH	6 PPC	HART	LY/SIES	HART	HART	SELF	SAKO	245 N201	EUBER	WIN
14	104	BOCK HORNBECK	22 PPC	HART	LEUPOLD	HART	SELF	SELF	SAKO	27 H322	SELF	WIN
15	132	BARTON WIEDER	6 PPC	HALL	LEUPOLD	HART	SELF	SELF	SAKO	31 W798	SELF	F205
16	218	ROBERT DEMONSTOY	6 PPC	STOLLE	LEUPOLD	HART	MASKEE	MASKEE	SAKO	28 H322	SELF	205
17	125	LESTER BRUNO	6 PPC	SLV 700	LEUPOLD	HART	SPENCER	SELF	SAKO	27 T322	BRUNO	205
18	120	GARY OCOCK	6 PPC	HALL	LEUPOLD	HART	WIEDER	SELF	SAKO	27 H322	OCOCK	205
19	136	JAMES OLIVER	6 PPC	WIKITA	LEUPOLD	HART	MASKEE	MASKEE	SAKO	27 H322	BRUNO	205M
20	207	JIM MEYER	22 WILD DOG	MEYER	LY/SIES	SWIDER	MEYER	MEYER	SAKO	T322	BURKS	205

1985 IBS NATIONALS

Continued from page 36

Rubright .3677, 18.) Butch Wahl .3685, 19.) Bob DeMonstoy .3713, 20.) Paul Hart .3719.

The four man team winners in the heavy varmint class was made up of Nate Boop, Dennis Wagner, Lowell Frei and Harlan Hoffer. The always popular Donaldson match was won by Seely Masker, with a ten shot 200 yard group of .689. Ira Farnsworth carried off old-timer honors with a 1.151, and T. Piera took single shot honors with a 1.950 group.

In Powder Puff competition, at 200 yards this year, the "experienced adult" placings were: 1.) J. Bierley .686 (that ain't bad 200 yard shootin'), 2.) Wanda Dixon .733, 3.) Ruth Dixon .780, 4.) Natalie Masker .981. In the "novice adult" it was: 1.) W. Weider .710, 2.) Judy Burks 1.402. In the "junior" class, it was: 1.) Sally Brown .792, 2.) C. Greer .901, 3.) S. Masker 1.152.) Editor's note: I do not THINK this was Seely Masker; I believe it was Jerry Masker's daughter. On the other hand, now that I think about it . . . why was Seely Masker shaving his legs in the Pine-Tree men's room an hour before the Powder Puff? I strongly recommend that the IBS look into this).

A few personal observations. The NBRSA had many shooters on the grounds, and all were made welcome. The Editor was loading next to Lowell Frei, and Dennis Wagner . . . and the NBRSA could not have sent two more well-liked shooters if they had planned it. Every time I turned around, two or three characters were coming through my area to say hello to the two, and thank them for coming. The two are certainly a class act. Finally, while several of the Pine Tree group were to bust their posteriors to do their best (including the rangemaster, Roger Oaksford), it is terribly obvious that Pine Tree cannot handle a 125 shooter match until such time as they improve their backer system, and speed up their volunteer target crew. The Editor, over the course of the 1985 shooting season, at many matches saw groups of kids who ran target changes . . . and who handled their chores with enthusiasm and speed.

If kids can do such a good a job, in places like Council Cup, Mainville, and Painted Post . . . Johnstown simply has to recognize it's shortcomings . . . and change them . . . or resign themselves to holding fifty shooter matches. Nuff said.

1986 IBS AFFILIATED CLUBS

AITBR

Alberto Midili
P.O. Box 176
43100 Parma, Italy

B.B.R.S.A.

Neil Jones
48 Stafford Lane
Hednesford, Staffordshire
England

BRSC

Jon Murdoch
33 Goldwich Crescent
London, Ontario,
Canada N5V 2K9

BRUNSWICK GUN CLUB

P. O. Box 315
Lawrenceville, Va. 23868

CAMILLUS SPORTSMEN CLUB

Hank Gonnella, Sr.
420 Hawley Ave.
Syracuse, NY 13202

CAPITOL CITY R & P CLUB

J. O. Gilbert
17 Forest Ave.
Augusta, Maine 04334

CENTRAL JERSEY R & P CLUB

Geza Nagy
436 S. 5th Ave.,
Highland Park, NJ 08904

COUNCIL CUP RIFLE RANGE

Wallace Hart
300 W. 4th St.
Nescopeck, PA 18635

DBRV

Peter Hammerich
Heimstttenstr-30
8000 Munchen 40 West Germany

DUNHAM'S BAY FISH AND GAME

Walter Hodges
112 Feeder Street
Hudson Falls, NY 12839

E.B.S.A.

Michael Toth
64 Cooke Ave.
Cateret, NJ 07008

FACTORYVILLE SPORTSMEN CLUB

Roger Rutkowski
5 Clearview Street
Peckville, PA 18452

HOLMESBURG FISH AND GAME

Greg Gillepsie
2117 Bridge Street
Philadelphia, PA 19124

IBS-FRANCE

George Cunnington
38 Rues Barbes
92120 Montrouge, France

JEFFERSON COUNTY IWLA

Milt Cook
548 S. Church St.
Charlestown, W. Va. 25414

KELBLY'S RIFLE RANGE

7222 Dalton Fox Lake Rd.
North Lawrence, Ohio 44666

MAINVILLE SPORTSMEN CLUB

Randy Fritz
RD #3, Box 411
Bloomsburg, PA 17814

McKINLEY BRS

H. R. Lachat
12076 Wooster Street, N.W.
Massillon, Ohio 44646

MILLPORT SHOOTERS

Cecil Gamble
35 S. Main Street
Port Allegany, PA 16743

NAMAKA BENCHREST

SHOOTERS CLUB
Al Mirdoch
Box 3070, Stn. "B"
Calgary, Alberta, Canada

PAINTED POST FIELD & STREAM

Robert Demonstoy
1 Pioneer Road
Painted Post, N.Y. 14870

PINE TREE RIFLE CLUB

Sid Blake
Johnson Ave., Box 45
Johnstown, N.Y. 12095

PRAIRIE DOG TARGET CLUB

Don Deckert
Porcupine, S.D. 57772

SCHWETZERISCHER BR VERBAND

Postfach 124
CH-2453 Lengnau
Switzerland

SNOW SHOE GUN CLUB

P.O. Box 125
Kenai, Alaska 99611

SOUTH CREEK ROD & GUN

Lloyd Richards
411 N. Wilbur Ave.
Sayre, PA 18840

SSAA

Ron Marsden
25 Tyalgum Ave.
Panania, NSW 2213 Australia

SULPHYR SPRINGS R & P CLUB

Chuck Pardoe
304 South Market Street
Muncy, PA 17756

THURMONT CONSERVATION CLUB

Richard Pryor
11617 Hunt Club Road
Thurmont, MD 21788

TITUSVILLE ROD & GUN CLUB

Larry Sheats
521 N. First Street
Titusville, PA 16354

UNION COUNTY SPORTSMEN

Nate Boop
RD #2
Mifflinburg, PA 17844

VA CHAPTER #1 IWLA

T. D. Glazener
Rt 5, 300 Manakin Rd.
Midlothian, VA. 23113

YORK IWLA

Robert Linn
73 Jolo Way
York, PA 17403

BACK ISSUES

Now available — 1-3 issues \$2.00, 4-11 issues \$1.50 each, 12 or more \$1.00 each. Write James Hart, R.D. 3, Lafayette, N.Y. 13084. Make checks payable to Precision Shooting.

CHANGING YOUR ADDRESS?

Please let us know, well in advance, what your new address will be. Send your old address too — even better, enclose the address label from a recent issue. The Post Office will not forward your copies unless you pay extra postage, but we will see that your "Precision Shooting" reaches you, without interruption, if you notify us six weeks in advance of your move. Write to Precision Shooting, 5735 Sherwood Forest Drive, Akron, Ohio 44319.

When giving your address please add your Zip Code number.

1985 IBS HUNTER NATIONALS Mainville, PA

**Tony Hopkins takes Hunter class.
K.L. Miller grabs Varmint-Hunter.
Bill Gebhardt tops Varmint-for score.**

If the Editor were ever to give up his insurance agency, and wanted to open a wind-farm (windmills located closely together, in tandem, to produce electric power), I do believe that I would call my real estate broker . . . and tell him to buy me a parcel of land in Mainville, Pa. . . . as close to the rifle range as he could get it. I should be wealthy within the year.

On September 14th and 15th, the Mainville Sportsmens Club hosted the IBS hunter classes Nationals. And those who left for the match prepared for the worst. Noxzema salve, good for wind burns, was completely sold out in every store within a hundred miles of Mainville. Noxzema stock went up five points on the New York Stock Exchange . . . at which point the Board of Governors suspended trading; nobody knew why the stock was exploding. The Company was summoned before the Board, and he could give no plausible explanation . . . the stuff was moving only at a normal sales rate like Florida and California. Not believing him a bit, the gentleman was shown the door. Rudely, at that. A trade rumor developed . . . that kids were starting to sniff the stuff, in paper bags . . . began to climb.

Mainville, meanwhile, made their usual match preparations. Six St. Bernard dogs were fitted with small tanks of oxygen around their necks, and roamed the grounds looking for the fallen . . . most of whom were indignant that the traditional brandy had been replaced. Another half dozen retired French Foreign Legion veterans were mounted on camels, and they patrolled the range perimeter, helping those who were lost in the driving sandstorms. The target crew was given a long rope, tied to their truck on one end, and the overhead cover at the other end, so that they could find their way back to the firing line. A courtesy that they repaid by promptly pulling down the overhead cover the first time they left to change targets. Finally, the rope was cut by a quick-thinking individual. The target crew was never seen again, but what the heck . . . we presume they'll stop when they hit the Atlantic Ocean. As I said earlier . . . perfectly normal Mainsville preparation for a match.

I hate to kill a good story, once it gets rolling . . . but there was no confounded wind all weekend at Mainville. Anyone who had sighted in his rifle during the weekend of the long-distance championships . . . was about four feet wide of the target this weekend of the long-distance championships . . . was about four feet wide of the target this weekend. It took hours to straighten out crossfires. The St. Bernards and camels were sent home (grumbling, naturally, with their pink unemployment slips), and the Legionnaires went peacefully, once they had been given a case of Dubonnet.

There were 14 shooters in the Hunter class. Top five at 100 yards: 1.) Tony Hopkins 248-11x, 2.) Alan K. Kogoy 248-5x, 3.) Joe Golba 247-10x, 4.) Guy Green 247-9x, 5.) Roger Gower 247-8x. At 200 yards: 1.) Vince Pastorella 241-4x, 2.) Guy Green 241-2x, 3.) Tony Hopkins 241-1x, 4.) Roger Gower 239-5x, 5.) Joe Golba 235-0x. Tony Hopkins had the high x-count at 100 yards with 11x, and Roger Gower won the 200 yard stage with 5x. Grand agg: 1.) Tony Hopkins 489-12x, 2.) Guy Green 488-11x, 3.) Vince Pastorella 487-12x, 4.) Roger Gower 486-13x, 5.) Joe Golba 482-10x, 6.) Sta Starzinski 479-9x, 7.) Dennis Collins 479-6x, 8.) Alan R. Kogoy 477-5x, 9.) S. Weddle 475-5x, 10.) Chuc Loeb sack 475-4x. The four man winning team was "the 308s", made up by Vince Pastorella, Guy Green, Tony Hopkins, and Charles Pardoe.

Varmint-hunter class (14 shooters), 100 yards, top five: 1.) Linda Hammonds 250-9x, 2.) Randy Fritz 249-9x, 3.) Robert Linn 249-8x, 4.) Mike Williams 248-14x, 5.) K.L. Miller 248-13x. At 200 yards: 1.) K.L. Miller 246-0x, 2.) Mike Williams 245-3x, 3.) George Schuckers 244-2x, 4.) Terry Wagner 243-3x, 5.) Bernard Williams 242-2x. Mike Williams had high x-count at 100 yards with 14x, and Erwin Shinkle took 200 yad honors with 5x. Grand agg: 1.) K.L. Miller 494-13x, 2.) Mike Williams 493-17x, 3.) George Schuckers 492-6x, 4.) Linda Hammonds 491-10x, 5.) Bernard Williams 490-12x, 6.) Randy Fritz 487-9x, 7.) Randall Fitz 486-9x, 8.) Terry Wagner 485-7x, 9.) Robert Linn 479-9x, 10.) Jim Zeyn 479-8x.

The four man team winners in this class were the "3 + 1" group of Linda Hammonds, George Schuckers, Bob Linn, and K.L. Miller.

Varmint-for-score class, with 36 shooters, was actively contested (to put it mildly). To illustrate, with 36 shooters, at 100 yards, a 245 score would just barely have gotten the shooter a "top 35" patch. Top ten at 100 yards: 1.) Tim Zeigler 250-18x, 2.) Bill Bailey 250-17x, 3.) Lester Bruno 250-15x, 4.) John Borden 250-13x, 5.) Tony Margelwicz 250-13x, 6.) Nate Boop 250-13x, 7.) Bill Gebhardt 250-13x, 8.) Ben Druck 250-12x, 9.) Carl Lynn 250-11x, 10.) John Mason 250-11x. Clarence Hammonds had high x-count, with 10 of the little rascals. At 200 yards: 1.) Bill Gebhardt 248-10x, 2.) Bart Weider 248-8x, 3.) Jim Borden 247-2x, 4.) Lester Bruno 247-8x, 5.) Tony Margelewicz 247-7x, 6.) Paul Olewine 247-7x, 7.) Ed Starzinski 247-7x, 8.) Clarence Hammonds 247-2x, 9.) Tony Generose 246-2x, 10.) Rich Altemus 246-3x. High x-count at 200 yards was Bill Gebhardt's 10x. Grand agg: 1.) Bill Gebhardt 498-23x, 2.) Bart Wieder 497-25x, 3.) Lester Bruno 497-23x, 4.) Tony Margelewicz 497-20x, 5.) Jim Borden 497-15x, 6.) Clarence Hammonds 496-21x, 7.) Bill Bailey 495-20x, 8.) Paul Olewine 495-18x, 9.) Rich Altems 495-16x, 10.) Ben Druck 495-16x. The four man winning team, The Chicken Chokers, was composed of Gary Ocock, Bart Wieder, Brian Rubright, and Lester Bruno.

Forty shooters entered the 4 man team competitions, which were contested for each of the three classes. The prize awards were very generous; in addition to the IBS trophies and awards, the Mainville club gave out 45 further trophies. Pretty hard to gripe about that!

THURMONT

The Thurmont (Maryland) club hosted a hunter and hunter-varmint match on October 13th, with eleven shooters on line. Top five shooters were: 1.) Paul Olewine 250-17x, 2.) Clarence Hammonds 250-14x, 3.) John Mason 250-14x, 4.) Wm. Wagman 250-9x, 5.) Robert Broyles 250-6x. Agg winner Paul Olewine, of Dauphine, Pa. fired a 6 PPC, Hart action, Hart barrel, Leupold 36x scope, 28.0 grains of H 322 with his own 70 grain bullets, in a rifle gunsmithed by himself.

MIDLOTHIAN

There was a good turn-out of shooters for the last IBS match of the year, at Midlothian, Virginia on October 12th and 13th. The weather was favorable, and all four classes were contested at 100 yards.

In the light varmint class (23 shooters), top five were: 1.) John Davidson .2268, 2.) Faye Boyer .2418, 3.) Liz Brennan .2688, 4.) Clay Spence .2744, 5.) Dick Maretzo .2780.

In the sporter class (21 shooters) top five were: 1.) Tony Boyer .1826, 2.) Bill Bailey .2336, 3.) Liz Brennan .2340, 4.) Dave Brennan .2424, 5.) Faye Boyer .2536.

In the heavy varmint class (25 shooters), Dick Maretzo put together groups of .085, .185, .160, .400 and .058 for an imposing .1776 agg, and the first place trophy. Even so, Odgen Black, with groups of .122, .187, .283, .216 and .159, for a .1914 agg, did not give the Gonzo Dentist all that much breathing room. Balance of top five: 3.) Tony Boyer .2348, 4.) Dave Brennan .2358, 5.) Ron Turner .2490

Heavy bench class: 1.) Dick Maretzo .2888, 2.) Faye Boyer .3475, 3.) John Davidson .3508, 4.) Sandy Northcraft .3812, 5.) John Chrisman .3968.

Three gun aggregate: 1.) Tony Boyer .2393, 2.) Dick Maretzo .2488, 3.) Dave Brennan .2537, 4.) Faye Boyer .2557, 5.) Liz Brennan .2683.

Small group honors for the weekend went to Dick Maretzo's .058 screamer . . . good enough to top the poor editor's .064 group.

The Kerry Butler Memorial Trophy is contested in Virginia each year, with the heavy varmint 100 yard aggs for the two Midlothian matches and the Brunswick summer match included as well. Top five for 1985: 1.) John Davidson .3104, 2.) Ogden Black .3137, 3.) Clay Spencer .3144, 4.) Ron Turner .3150, 5.) Bill Bailey .3206.

Every time the Editor has gone to Midlothian he has found a real enjoyable well-run match, and a very congenial bunch of competitors. This one was no exception!

CHANGING YOUR ADDRESS?

Please let us know, well in advance, what your new address will be. Send your old address too — even better, enclose the address label from a recent issue. The Post Office will not forward your copies unless you pay extra postage, but we will see that your "Precision Shooting" reaches you, without interruption, if you notify us six weeks in advance of your move. Write to Precision Shooting, 5735 Sherwood Forest Drive, Akron, Ohio 44319.

When giving your address please add your Zip Code number.

1986

I.B.S. VARMINT MATCH SCHEDULE

February 2 — DUNHAMS BAY: HV - 100 meters - 11 a.m.

February 16 — DUNHAMS BAY: HV - 100 meters - 11 a.m.

March 2 — DUNHAMS BAY: HV - 100 meters - 11 a.m.

March 16 — DUNHAMS BAY: HV - 100 meters - 11 a.m.

April 6 — DUNHAMS BAY: HV - 100 meters - 11 a.m.

April 20 — DUNHAMS BAY: HV - 100 meters - 11 a.m.

May 4 — DUNHAMS BAY: HV - 100 meters - 11 a.m.

May 3-4 — NAMAKA BENCHREST SHOOTERS, Calgary, Canada: Spr, LV, HV, 5 shot Heavy Bench - 200 yards Saturday - 100 yards Sunday.

May 23-24 — NAMAKA BENCHREST SHOOTERS, Calgary, Canada: Spr, LV, HV, 10 shot Heavy Bench - 100 yards Friday - 200 yards Saturday.

June 21-22 — NAMAKA BENCHREST SHOOTERS, Calgary, Canada: Spr, LV, HV, 10 shot Heavy Bench - 200 yards Saturday - 100 yards Sunday.

July 18-19 — NAMAKA BENCHREST SHOOTERS, Calgary, Canada: Spr, LV, HV, 10 shot Heavy Bench - 100 yards Friday - 200 yards Saturday, Night Shoot - Starting Time 9 p.m..

Aug. 15-16 — NAMAKA BENCHREST SHOOTERS, Calgary, Canada: Spr, LV, HV, 5 shot Heavy Bench - 100 yards Friday - 200 yards Saturday.

Sept. 13-14 — NAMAKA BENCHREST SHOOTERS, Calgary, Canada: LV, HV, - 200 yards Saturday - 100 yards Sunday.

Oct. 4-5 — NAMAKA BENCHREST SHOOTERS, Calgary, Canada: Spr, LV, HV, 5 shot Heavy Bench - 200 yards Saturday - 100 yards Sunday.

1986

I.B.S. HUNTER MATCH SCHEDULE

February 2 — DUNHAMS BAY: H - 100 yards - 11 a.m.

February 16 — DUNHAMS BAY: H - 100 yards - 11 a.m.

March 12 — DUNHAMS BAY: H - 100 yards - 11 a.m.

March 16 — DUNHAMS BAY: H - 100 yards - 11 a.m.

April 6 — DUNHAMS BAY: H - 100 yards - 11 a.m.

April 20 — DUNHAMS BAY: H - 100 yards - 11 a.m.

May 4 — DUNHAMS BAY: H - 100 yards - 11 a.m.

May 3-4 — NAMAKA BENCHREST SHOOTERS, Calgary, Canada: H, VH - 200 yards Saturday - 100 yards Sunday.

May 23-24 — NAMAKA BENCHREST SHOOTERS, Calgary, Canada: H, VH - 100 yards Friday - 200 yards Saturday.

June 21-22 — NAMAKA BENCHREST SHOOTERS, Calgary, Canada: H, VH - 200 yards Saturday - 100 yards Sunday.

July 18-19 — NAMAKA BENCHREST SHOOTERS, Calgary, Canada: H, VH - 100 yards Friday - 200 yards Saturday. Night shoot, starting time 9 p.m.

Aug. 15-16 — NAMAKA BENCHREST SHOOTERS, Calgary, Canada: H, VH - 100 yards Friday - 200 yards Saturday.

Sept. 13-14 — NAMAKA BENCHREST SHOOTERS, Calgary, Canada: H, VH - 100 yards only, Saturday p.m.

Oct. 4-5 — NAMAKA BENCHREST SHOOTERS, Calgary, Canada: H, VH - 200 yards Saturday - 100 yards Sunday.

Oct 18-19 — NAMAKA BENCHREST SHOOTERS, Calgary, Canada - H (score), VH (score), H (group), VH (group) - 200 yards Saturday - 100 yards Sunday.

IBS ITEMS FOR SALE

The following items are available from the IBS. Those interested in purchasing any of these items should contact Joan Borden, R.D. #1 Box 244A, Tunkhannock, PA 18657 Please enclose sufficient funds to cover the cost of shipping.

Targets:

100 yd. benchrest (box of 500)	\$30.00
200 yd. benchrest (box of 500)	\$30.00
300 yd. red benchrest (box of 250)	\$30.00

100 yd. hunter (box of 250)	\$19.00
200 yd. hunter (box of 250)	\$20.00
300 yd. red hunter (box of 250)	\$30.00

IBS clubs receive a 10% discount.

IBS Items:

Style #1-decal outside appl.	\$.50
Style #2-decal inside window appl.	\$.50
IBS Membership patch 5" diameter	\$ 3.00
Available early 1986-IBS Belt Buckle (Nickel finish)	\$10.50

SULPHYR SPRINGS

In Muncy, Pa. on September 29th, the Sulphyr Springs club hosted a match for the three hunter classes. The few critics of the varmint-for-score argue that the hunter competition does not need another class (specifically, the varmint-for-score class). While the Editor has no wish to poke his editorial nose into the question, he must make the observations that it has brought dozens of varmint class shooters out to the hunter matches. The shooters have been happy, the clubs have had quite a bit more revenue coming in (thereby making them happy), and it would seem to me a trifle difficult to constructively criticize a situation where both shooters and clubs are happy. Theories be hanged. If everybody's happy . . . it seems like a good thing.

In the varmint-for-score class, with 15 shooters, Jim Borden continued on the roll that he has been on for a while in this class . . . with a 250-19x score, good for the first place trophy. The good Mr. Borden was followed by: 2.) Agnes Sabo 250-17x, 3.) Paul Ryan 250-15x, 4.) Carl Lynn 250-14x, 5.) Charles Wagner 250-14x, 6.) Ronald Gosciminski 250-8x, 7.) Roger Gower 249-16x, 8.) George Schuckers 249-12x, 9.) Donald Brown 248-13x, 10.) Paul Olewine 248-12x. Jim Borden fired a 6 PPC, Stolle action, Hart barrel, Leupold 36x scope, 26.2 grains of H 322 with 68 grain Brawand bullets, and Federal primers, in a rifle smithed by Seely Masker.

Varmint hunter class (4 shooters): 1.) Terry Wagner 247-7x 2.) Randall Fritz 246-7x, 3.) Bill Creasy 245-7x. Agg winner Terry Wagner fired a 6 PPC, Remington 700 action, Hart barrel, Weaver 6x scope, 27.0 grains of 322 with Rubright 68 grain bullets and Federal primers.

Hunter class (9 shooters): 1.) Vince Pastorella 249-11x, 2.) K.L. Miller 248-7x, 3.) Guy Green 246-6x, 4.) Leroy Hopkins 242-5x, 5.) Randy Fritz 240-3x. (For the record, Randy fired the infamous 6 MM Fireplug, based on 45-70 brass). Agg winner Vince Pastorella fired a .308, Hart action, Hart barrel, Weaver 6x scope, 41.0 grains of 4895 with his own 168 grain bullets, and Federal primers.

YORK

The Izaak Walton League at York, Pa. held their final match of the year for the hunter classes on October 20th.

Hunter class (4 shooters): 1.) Vince Pastorella 249-13x, 2.) Stan Starzinski 247-8x, 3.) Randy Fritz 246-7x. Agg winner Vince Pastorella, of Milensville, Pa. fired a 308, Hart action (?), Hart barrel,

Weaver 6x scope, 41 grains of H 4895 with his own 168 grain bullets, and Federal primers, in a rifle smithed by himself.

Varmint hunter class (6 shooters): 1.) Bill Wagmen 249-15x, 2.) Randall Fritz 249-10x, 3.) K. L. Miller 249-9x. Agg winner Bill Wagman, of Dallastown, Pa. fired a 6 PPC, Remington action, McMillan barrel, Weaver T6 scope, 28.0 grains of H 322 with 68 grain Bruno bullets and Federal primers, in a rifle smithed by Clarence Hammonds.

Varmint for score class (11 shooters): 1.) Clarence Hammonds 250-18x, 2.) Paul Olewine 250-18x, 3.) Dick Grosbier 250-15x 4.) Richard Pryor 250-15x, 5.) John Mason 250-13x, 6.) Robert McGuigan 250-13x, 7.) Charles Kinard Jr. 250-12x, 8.) Ben Druck 250-10x. Agg winner Clarence Hammonds, of Red Lion, Pa. fired a 6 PPC, Meyer action, Wiseman barrel, Leupold 36x scope, 27.0 grains of T 322 with 65 grain Watson bullets and Federal primers, in a rifle smithed by himself.

SOUTH CREEK

The South Creek winter league, at Fassett, Pa. got off to cold, rainy, windy start on November 3rd. Eleven shooters ventured out for the occasion. Dozens more displayed unusual good judgement, and stayed by the fireplace. top shooters, were: 1.) Floyd Stohner .3514, 2.) George Stickler .4216, 3.) Tony Margelewicz .4402, 4.) Bill Spencer .5298, 5.) Walt Malinski .53509. Small group was Floyd Stohner's .144. Following the match, the eleven were given pneumonia pills, and sent home.

On November 17th, the weather was more bearable, with the result that twenty shooters made halting, tentative appear-

ance. Top five were: 1.) Floyd Stohner .2786, 2.) Bill Gebhardt .2944, 3.) Frank James .3032, 4.) (tie) Bob DeMonstoy .2116, 4.) (tie) Paul Kempfer .3116. Small group was George Stickler's .140.

SULPHYR SPRINGS

The final hunter classes match of the year was fired at the Muncy, Pa. range on October 27th. Conditions must have been pretty decent. . . a 250 score didn't even make top ten in the varmint for score category.

Hunter class (3 shooters): 1.) Vince Pastorella 247-12x, 2.) Charles Pardoe 244-8x, 3.) Stan Starzinski 243-5x. Class winner Vince Pastorella fired a .308, Hart action (!), Hart barrel, Weaver scope, 41.0 grains of H 4895 with his own 168 grain bullets, and Federal primers.

Varmint hunter class (4 shooters): 1.) Randy Fritz 248-7x, 2.) Tony Generose 243-13x, 3.) Terry Wagner 245-10x. Class winner Randy Fritz fired a 6 PPC, Remington 700 action, Atkinson barrel, Weaver scope, 29.0 grains of H 322 (warm load!) with his own 62.5 grain bullets, and Federal primers.

Varmint for score class (18 shooters) 1.) Tony Margelewicz 250-17x, 2.) Ron Gosciminskis 250-17x, 3.) Ed Starzinski 250-16x, 4.) Agnes Sabo 250-16x, 5.) Paul Ryan 250-15x, 6.) Joe Banik 250-14x, 7.) Nicholas Yurchak 250-14x, 8.) Robert McQuiguigan 250-12x, 9.) George Schuckers 250-12x, 10.) Bill Gebhardt 250-12x. Class winner Tony Margelewicz fired a 6 PPC Hart 1A action, Hart barrel, Lyman-Siebert scope, 27.6 grains of H 322 with Euber 68 grain bullets and Winchester primers.

INTERNATIONAL BENCHREST SHOOTERS APPLICATION

Name
Address
City State Zip

IBS MEMBERSHIP

- () IBS membership and PS for one year — \$20.00
() Associate member (no magazine) other members of same household — \$7.00
() Junior member (no magazine) under age 16 — \$4.00
() Club Affiliation and PS for one year — \$20.00
() Foreign Membership
Surface Mail — \$32.50
Air Mail — \$50.00
() New () Renewal

MAIL MEMBERSHIP TO:

JOAN BORDEN
R.D. #1 Box 244A, Tunkhannock, Pa. 18657

For membership make checks payable to IBS.

PRECISION SHOOTING SUBSCRIPTION

- () Precision Shooting, one year — \$16.50
() Precision Shooting, two years — \$30.00
() Precision Shooting outside U.S. & Canada — \$22.50 each year, or \$40.00 air-mail
SUBSCRIPTION CHECKS NOT DRAWN ON AN AMERICAN BANK WILL BE RETURNED
() New () Renewal

MAIL PRECISION SHOOTING MAGAZINE SUBSCRIPTION TO:

PRECISION SHOOTING
5735 Sherwood Forest Drive, Akron, Ohio 44319

For subscription ONLY make checks payable to Precision Shooting.



NBRSA News

Edited by Dave Brennan

PRESIDENTS MESSAGE

By the time you see this you should have had a chance to review the 1985 board of directors minutes. I believe the only item that some of you might question is the sand bag rule. After a lengthy discussion by your directors the rule, as written in the minutes, was determined to be a rule that would be easy to enforce and one that would not make any of the commercially available bags illegal. The manner in which a competitor uses the side adjusting plates and screws will determine its legality.

I wish to ask all directors and referees to use patience and understanding in enforcing this rule. It should be ENFORCED but it was, and is, not the intent to create any bad feelings over this rule. All current commercially available sand bags can be legal. Directors and referees are asked to implement this rule with the least amount of confusion and inconvenience to our competitors as possible.

Any one desiring a copy of the rule book revisions should contact our secretary-treasurer.

I hope that 1985 was a good year for all of you and that 1986 will be even better.

TOMBALL

If the 10½ pound rifle is your dish, you would have loved being at Tomball (Texas) on July 6th and 7th. They hosted the Gulf Coast regionals for both the light varmint and sporter classes that weekend, and had 42 shooters to participate in the doings. All yardages were closely contested.

Light varmint class, 100 yards: Gary Vincent .2578, 2.) Joe Staples .2590, 3.) Jack Heath .2630, 4.) Ron Prachyl .2718, 5.) B.J. Green .2746, 6.) Howard Scott .2796. Official screamer groups are rare in Texas, but Russell Waterman just made it under the wire with an .099 figure. At 200 yards: 1.) Jack Heath .2374, 2.) Joe Staples .2377, 3.) Jacob Gottfredson

.2335, 4.) Gary Vincent .2581, 5.) Louis Langlinais .2707, 6.) Don Geraci .2823. Small group was Don Geraci's .297. Grand agg: 1.) Joe Staples .2484, 2.) Jack Heath .2502, 3.) Gary Vincent .2580, 4.) B.J. Green .2803, 5.) Howard Scott .2999, 6.) Ron Prachyl .3049.

Sporter class, 100 yards: 1.) James Toeppich .2032 (the only runaway winner of the weekend, and a real low agg for Texas shooting conditions), 2.) Louis Langlinais .2344, 3.) Howard Scott .2384, 4.) John Sumrall .2426, 5.) Russell Waterman .2482, 6.) Denny Sansom .2644. Small group to James Toeppich for his .122 figure. At 200 yards: 1.) Howard Scott .2667, 2.) Jack Heath .2692, 3.) Pete Callan .2934, 4.) James Toeppich .2964, 5.) Kenneth Sansom .3171, 6.) Charles Mills .3193. Small group was Paul Dorsey's .323. Grand agg: 1.) James Toeppich .2498, 2.) Howard Scott .2526, 3.) Louis Langlinais .2948, 4.) Jack Heath .2961, 5.) Marcy Lyons .3033, 6.) Charles Mills .3037.

Top guns in the two gun aggregate: 1.) Jack Heath .2732, 2.) Howard Scott .2762, 3.) Joe Staples .2948, 4.) Gary Vincent .2957, 5.) Louis Langlinais .3088, 6.) James Toeppich .3181, 7.) Kenneth Sansom .3185, 8.) Howard Barry .3221, 9.) Russell Waterman .3262, 10.) Jimmie Broussard .3278. The two gun winner, Jack Heath, of Houston, Texas fired a 6 PPC, Stolle action, Hart barrel, Lyman-Siebert 30x scope and 29.6 grains of BR 28 powder with 68 grain Berger bullets.

LAFAYETTE

The Hub City Rifle and Pistol Club, in Lafayette, Louisiana had 17 shooters on line for a 100 yard hunter class match on July 14th. Top five: 1.) Gary Vincent 250-14x, 2.) Russell Waterman 250-13x, 3.) Louis Langlinais 250-11x, 4.) Ed Rich 249-10x, 5.) Weldon Laviolette 248-14x. Agg winner Gary Vincent, of Lafayette, Louisiana fired a 6 HLS, Remington 700 action, Wiseman barrel, Leupold 4-12 variable scope, 34.1 grains of H 4895 with 72 grain Euber bullets, in a rifle smithed and stocked by Bob Brackney.

HOLMWOOD

The Southwest Louisiana Rifle and Pistol Club had 18 hunter class rifle shooters on line for their June 9th match. At 100 yards: 1.) John Guillory 250-10x, 2.) Mike Guillot 250-6x, 3.) Weldon Laviolette 248-11x, 4.) Louis Falgoust 248-6x, 5.) Louis Langalainais 247-6x. High score, heavy factory rifle, Darrel Willis 241-3x. At 200 yards: 1.) Louis Langlinais 244-4x, 2.) Weldon Laviolette 242-1x, 3.) Carroll Green 240-2x, 4.) E.M. Baggett 239-3x, 5.) Gary Vincent 239-2x. High score, heavy factory rifle, Ikey Smith 228-0x. Grand agg: 1.) Louis Langlinais 491-10x, 2.) Weldon Laviolette 490-12x, 3.) Mike Guillot 489-6x, 4.) Carroll Green 486-13x, 5.) Gary Vincent 478-4x. High agg, heavy factory rifle, Darrel Willis 458-4x. Grand agg winner, Louis Langlinais, a visitor from Texas, fired a 6 Hunter (?), Shilen Action, Hart barrel, Weaver T-6 scope, and 34.1 grains of H 4895 with 70 grain Metzger bullets.

OAK HILLS

The Oak Hill Club, out Iowa way, had 9 shooters for a light varmint match on July 21st. This range is under construction really, and just before the match, the dump truck that was delivering sand got in a real argument with benches nine and ten. The benches are fine, but the dump truck really got the worst of things. That'll teach the feller to mess around with the benchrest world! Seriously, new clubs, where one or two dedicated individuals are struggling to put it all together, need a lot of support, and easy on the fault-finding for a while.

At 100 yards: 1.) Dennis Shepard .2632, 2.) Ed Cabor .2780, 3.) Mike Hentges .3266. Small group was Ed Cabor's .132. At 200 yards: 1.) Ed Cabor .3609, 2.) Rod Parker .3808, 3.) Dennis Shepard .4292. Small group was Bob Parker's .309. Grand agg: 1.) Ed Cabor .3194, 2.) Dennis Shepard .3462, 3.) Bob Parker .3878. Grand agg winner Ed Cabor, of Port Byron, Illinois fired a 6 PPC, Hall action, McMillan barrel, Lyman 30 scope, 26.7 grains of 322 with his own 68 grain bullets, in a rifle smithed and stocked by himself.

BATON ROUGE

The Baton Rouge Louisiana Club had 15 shooters on hand for a hunger class match on June 2nd, contested at 100 and 300 yards.

At 100 yards: 1.) Louis Langlains 250-10x, 2.) Roland Rigdon 250-7x, 3.) Mark Resweber 249-16x, 4.) Russell Waterman 249-12x, 5.) Gary Vincent 248-12x. At 300 yards: 1.) Weldon Laviolette 241-5x, 2.) Louis Langlains 239-2x, 3.) Russell Waterman 238-2x, 4.) Jimmie Broussard 237-3x, 5.) Gary Vincent 236-3x.

There was not a grand agg for the two. The Weldon Laviolette 300 yard agg figure is a tentative new NBRSA record. Mr. Laviolette fired a .308, Remington 700 action, McMillan barrel, Weaver T6 scope, 41.8 grains of H 4895 in Norma brass, with Sierra 168 grain bullets, and Federal 210M primers, in a rifle smithed by Bob Brackney, and stocked by Carroll Green.

GREELEY

The Northern Colorado Benchrest Shooters Club hosted the Colorado State light varmint championships on July 13th and 14th, with an accompanying heavy varmint class match.

Light varmint class (25 shooters), 100 yards: 1.) Ralph Landon .2360, 2.) Jim Smola .2600, 3.) Dan Dowling .2702, 4.) Bob Kokott .2776. Small group, Marion Mather .148. At 200 yards: 1.) Ralph Landon .2875, 2.) Butch Kimmell .3537, 3.) George Sedlacek .3609, 4.) Bob Kokott .3700. Small group, Jim Smola .323. Grand agg: 1.) Ralph Landon .2618, 2.) Bob Kokott .3238, 3.) Butch Kimmell .3321, 4.) Jim Boulden .3507. The gentleman who blew everyone's doors off, Jim Landon, of Glenwood Springs, Colorado fired a 6 PPC, Remington action Hart barrel, Leupold-Siebert 30x scope, 27.0 grains of 4895 with Reigle 65 grain bullets, in a rifle smithed and stocked by Dan Dowling.

Heavy varmint class (19 shooters), 100 yards: 1.) Rich Mutz .2486, 2.) Dean Parker .2946, 3.) Bob Wirthlin .3010, 4.) Bill Pond .3148. Small group, Butch Kimmell .151. At 200 yards: 1.) Bill Pond .4885, 2.) Dan Dowling .4962, 3.) Dean Parker .5398, 4.) Jim Smola .5416. Small group again to Butch Kimmell, this one for a .402 group. Grand agg: 1.) Bill Pond .4017, 2.) Dean Parker .4172, 3.) Rich Mutz .4326, 4.) Bob Wirthlin .4345. Grand agg winner Bill Pond, of Rapid City, South Dakota fired a .22 Waldog, Remington 40x action, Atkinson barrel, Leupold-Siebert 30x

scope, 24.5 grains of H 322 with Remington 52 grain bullets, in a rifle smithed and stocked by Dan Dowling

Might as well get this match in here; a hunter class match with 9 shooters on July 21st. At 100 yards: 1.) R.C. Sumner 250-9x, 2.) John Ambler 249-13x, 3.) Slim Zinanti 246-10x. At 200 yards: 1.) John Ambler 245-0x, 2.) Bill Ruth 244-2x, 3.) R.C. Sumner 240-0x. Grand agg: 1.) John Ambler 494-13x, 2.) R.C. Sumner 490-9x, 3.) Bill Ruth 485-5x. Grand agg winner John Ambler, of Fort Collins, Colorado fired a 30 SP, Remington 700 action, Hart barrel, Weaver T 6 scope, 36.0 grains of H 322 with Speedy Gonzalez 110 grain bullets, in a rifle smithed and stocked by himself.

HOLTON

The Holton (Michigan) gang hosted a light varmint and heavy varmint match on July 6th and 7th. There were 24 shooters, and they had the decency to shoot the whole match at one range this time. In matches past, I have known the Michigan group to do some strange things.

Light varmint class, 100 yards: 1.) Kim Brown .2010, 2.) Bill Gammon .2348, 3.) Harry Hoppe .2440, 4.) Paul Johnson .2600, 5.) Lowell Hottenstien .2620. Small group, Jim Henry .113. At 200 yards: 1.) Jim Henry .3942, 2.) Walt Balch .4254, 3.) Harry Hoppe .4322, 4.) Paul Johnson .4706, 5.) Phil Sauer .4951. Small group, Jim Henry .446. Grand agg: 1.) Harry Hoppe .3381, 2.) Jim Henry .3409, 3.) Walt Balch .3589, 4.) Paul Johnson .3653, 5.) Kim Brown .3687.

Heavy varmint class, 100 yards: 1.) Lowell Hottenstien .2858, 2.) Ernie Haase .2894, 3.) Bud Hill .2974, 4.) Harry Hoppe .2992, 5.) Gay Hayes .3342. Small group, Ed Haase .134. At 200 yards: 1.) Kim Brown .2515, 2.) Bill Gammon .2927, 3.) V. Halverson .2927, 4.) Lowell Hottenstien .2955, 5.) Ernie Haase .3200. Small group, Bill Gammon .280. Grand agg: 1.) Lowell Hottenstien .2907, 2.) Ernie Haase .3047, 3.) Kim Brown .3105, 4.) Bud Hill .3134, 5.) Harry Hoppe .3312. Two gun rankings: 1.) Harry Hoppe .3346, 2.) Kim Brown .3396, 3.) Lowell Hottenstien .3527, 4.) Jim Henry .3570, 5.) Phil Sauer .3752.

Light varmint class winner Harry Hoppe of Muskegon, Michigan fired a 6 PPC, sleeved 700 action, Hart barrel, Lyman-Siebert 30x scope, and 27.0 grains of H 322 with 67 grain Lachat bullets. Heavy varmint class winner Lowell Hottenstien, of Petersburg, Michigan fired a 6 PPC, Stolle action, Sherer barrel, Leupold 36x scope, and 29.0 grains of H 4895 with his own 68 grain bullets.

HELENA

The Prickley Pear Sportsmen's Association were a busy bunch on August 18th; they hosted the Montana State Championships in hunter, light varmint, and heavy varmint classes, all at 100 yards. There were 15 shooters there, and from looking at the figures, some darn good shooting was done.

Hunter class: 1.) Bill Cote 249-14x, 2.) Paul Williams 249-12x, 3.) Jen Cote 248-6x, 4.) Dan Lilja 247-7x, 5.) Bob Fritz 246-10x. Agg winner Bill Cote, of Missoula, Montana shot a .308, Remington 700 action, Hart barrel, Weaver KT 6 scope, 45.7 grains of H 380 with 168 grain Sierra bullets, in a rifle smithed by Arnold Erhardt, of Helena, Montana.

Light varmint class: 1.) Lee Andrews .2276, 2.) Dan Lilja .2862, 3.) Bob Fritz .2914, 4.) Jon Largis .3200, 5.) Al Mirdoch .3290. Small group was a .122, by Lee Andrews. Agg winner Lee Andrews, of Helena, Montana fired a 6 PPC, Hall action, Hart barrel, Leupold 36x scope, 27.5 grains of H 322 with 68 grain Euber flat base bullets, in a rifle smithed by Fred Sinclair.

Heavy varmint class: 1.) Lee Andrews .2118, 2.) Bill Cote .2242, 3.) Bob Fritz .2360, 4.) Huck Hutson .2514, 5.) Alan Bunch .2606. Small group was a .132 by Dan Lilja, the barrel-maker of Plains, Montana. Lee Andrews fired a rifle with same specifications as described above.

For those who keep track of such things, The Prickley Pear Club, located just five miles from the top of the Continental Divide, hosted the first NBRSA match ever in the state of Montana. You read it here first.

SAN ANGELO

San Angelo (Texas) held a 100 yard hunter class match on July 14th, with 9 shooters. Top guns: 1.) Mike Wilson 250-17x, 2.) Eddie Williams 249-11x, 3.) Bob Russell 247-15x, 4.) Dan Motl 247-7x, 5.) Al Elliot 245-11x. Agg winner Mike Wilson, of San Angelo fired a .308, Remington 700 action, Wiseman barrel, Weaver KT 6 scope, 47.0 grains of H 380 powder with Sierra 168 grain bullets, in a rifle smithed by Eddie Williams, and stocked by himself. Must have been a busy weekend for Mike Wilson. On Saturday he finished stocking his new rifle. In the morning on Sunday he fired a 250-9x in a hunter shoot at Menard, Texas; drove to San Angelo and fired a 250-17x in the afternoon. Too bad he couldn't find a night shoot somewhere in Texas, to keep him occupied for the evening.



NBRSA OFFICERS

Walt Berger, President
4234 N. 63rd Ave. (602) 846-5791
Phoenix, Arizona 85033

George Kelbly, Vice President
7222 Dalton Fox Lake Rd. (216) 683-4674
North Lawrence, Ohio 44666

EASTERN REGION

Stan Buchtel, Director
5735 Sherwood Forest Dr. (216) 882-6877
Akron, Ohio 44319

GULF COAST REGION

Marcy Lyons, Director
404 W. 14th St. (318) 783-8110
Crowley, LA 70526

MID-CONTINENT REGION

Dennis Wagner, Director
6821 NW 28 (405) 495-2868
Bethany, Oklahoma 73008

MISSISSIPPI VALLEY REGION

Ron Hoehn, Director
1430 E. Duchsne (314) 837-3846
Florissant, MO 63031

NORTH CENTRAL REGION

Tom Hexum, Director
2275 Atlantic (Apt. #202) (612) 483-5501
St. Paul, Minnesota 55109

NORTHEAST REGION

Lee Euber, Director
RD #1 (802) 388-4280
Middlebury, VT 05753

NORTHWEST REGION

Jim Folwell, Director
16040(A) Tilley Rd. S. (206) 264-4106
Tenino, Washington 98589

SOUTHEASTERN REGION

Ed Watson, Director
2404 Wade Hampton Blvd. (803) 244-7948
Greenville, South Carolina 29615

SOUTHWESTERN REGION

Dennis Thornbury, Director
1114 S. McAuliff Road (209) 732-4401
Visalia, CA 93277

SECRETARY-TREASURER

Stella Buchtel
5735 Sherwood Forest Drive (216) 882-6877
Akron, Ohio 44319

RECORDS COMMITTEE

Francis Broussard, Chairman
613 Sidney Drive (318) 332-5638
Breaux Bridge, La. 70517

NBRSA NEWS

David D. Brennan, Editor
37 Burnham Street
East Hartford, Conn. 06108 (203) 289-8775
[work] (203) 643-1157

SIDNEY

The Shelby County (Ohio) Club hosted a 10½-13½ pound varmint rifles match on June 29th and 30th.

Light varmint class (28 shooters), 100 yards: 1.) Lowell Hottenstein .2320, 2.) Todd Cuttingham .2380, 3.) Ernie Haage .2646, 4.) Stan Buchtel .2954, 5.) Lowell Shelt .3000. Small group, Stan Buchtel .108. At 200 yards: 1.) Joe Kabel .2769, 2.) Lowell Shelt .3446 3.) Orlin Gilkerson .3447, 4.) Bill Forrester .3518, 5.) Ernie Haage .3723. Small group, Don Powell .350. Grand agg: 1.) Joe Kabel .2931, 2.) Lowell Hottenstein .3120, 3.) Todd Cuttingham .3150, 4.) Ernie Haage .3184, 5.) Lowell Shelt .3223. Grand agg winner Joe Kabel, of Mason, Ohio fired a 6 PPC, Stolle action, Wiseman barrel, Leupold 36x scope, 26.5 grains of 322 with Riegle 67½ grain bullets, in a rifle smithed by Ferris Pindell, and stocked by Ikenlauf.

Heavy varmint class (30 shooters), 100 yards: 1.) Jim Boettcher .2570, 2.) Orlin Gilkerson .2754, 3.) Bill Ponder .2848, 4.) Phil Jones .2996, 5.) Fred Hasecuster .3076. Small group, Jim Boettcher .124. At 200 yards: 1.) Orlin Gilkerson .3297, 2.) Ron Keim .3402 3.) Phil Jones .3899, 4.) Jim Boettcher .4201, 5.) Don Powell .4302. Small group, Orlin Gilkerson .307. Grand agg: 1.) Orlin Gilkerson .3025, 2.) Jim Boettcher .3385, 3.) Phil Jones .3447, 4.) Don Powell .3854, 5.) Joe Kabel .3955. Grand agg winner Orlin Gilkerson, of Fairfield, Ohio fired a 6 PPC, Remington XP-100 action, Scherer barrel, Leupold 36x scope, 26.0 grains of T 322 with Pindell 68 grain bullets, in a rifle smithed by Fred Hasecuster, and stocked by Ikenlauf.

ST. LOUIS

The St. Louis Benchrest Rifle Club hosted a heavy varmint class match on June 8th, and a light varmint class match on July 14th. The information on winning equipment is not available.

Light varmint (10 shooters), 100 yards: 1.) Bud Mundy .2622, 2.) Rich Griffin .2794, 3.) Don Ball .2824. At 200 yards: 1.) Guy Chism .3370 2.) Don Ball .3725, 3.) Bud Mundy .3830. Grand Agg: 1.) Bud Mundy .3226, 2.) Don Ball .3275, 3.) Rich Griffin .3441.

Heavy varmint class (9 shooters), 100 yards: Rich Griffin .2072, 2.) Ron Hoehn .2082, 3.) Gene Adkins .3452. Small group was Rich Griffin's .115. At 200 yards: 1.) Don Ball .2890, 2.) Gene Adkins .2896, 3.) Ron Hoehn .3103. Small group was Gene Adkins's .312. Grand agg: 1.) Ron Hoehn .2593, 2.) Rich Griffin .2666, 3.) Gene Adkins .3174.

COUNCIL BLUFFS

Council Bluffs, Iowa had a turn-out of 15 shooters for their heavy varmint and light varmint classes match on July 13th and 14th. The editor's match report says the weather was "good, as always"; if you believe that . . . I have some nice, shore-front property in Pittsburg that I would like to show you.

Heavy varmint class, 100 yards: 1.) Tom Hexum .2354, 2.) Bud Rainwater .2362, 3.) Joe Jovonovich .2768, 4.) Ralph Judd .2828, 5.) Don Creach .2838. At 200 yards: 1.) Don Creach .3150, 2.) Tom Hexum .2584, 3.) Bob Dodd .3770, 4.) Huck Hutson .3815, 5.) Ralph Judd .3900. Grand agg: 1.) Tom Hexum .2969, 2.) Don Creach .3150, 3.) Bud Rainwater .3211, 4.) Ralph Judd .3264, 5.) Joe Jovonovich .3445. Grand agg winner Tom Hexum, of Maplewood, Minnesota fired a 22 Hex, sleeved 700 action, Hart barrel, Lyman-Siebert 30x scope 23.6 grains of BR 28 powder with PCBS 51 grain bullets, in a rifle smithed by Wallace, and stocked by Fred Sinclair.

Light varmint class, 100 yards: 1.) Marty Gordon .2472, 2.) Don Creach .2568, 3.) Mel Estep .2718, 4.) Bob Dodd .2936, 5.) Bud Rainwater .3100. Small group was a rather impressive .057 official screamer from Marty Gordon. At 200 yards: 1.) Marty Gordon .2585, 2.) Bud Rainwater .2871, 3.) Don Creach .2887, 4.) Mel Estep .3339, 5.) Tom Hexum .3848. Small group to Mel Estep for a .259. Grand agg: 1.) Marty Gordon .2528, 2.) Don Creach .2727, 3.) Bud Rainwater .2985, 4.) Mel Estep .3028, 5.) Huck Hutson .3375. Marty Gordon, who was a very convincing class winner, fired a 6 PPC, Stolle action, Hart barrel, Leupold scope, 27.5 grains of T322 with Berger 68 grain bullets, in a rifle smithed by Bill Webb, and stocked by Fred Sinclair.

SHERWOOD

The Tri-County Gun Club, in Sherwood, Oregon hosted the Northwest Region sporter class championships on July 21st, with 15 shooters.

At 100 yards: 1.) Del Bishop .2822, 2.) Bill Campbell .2902, 3.) George Bowerman .2990. Small group was an official screamer .086 from Bill Campbell. At 200 yards: 1.) Bill Campbell .2893, 2.) Del Bishop .3171, 3.) Steve Kostanich .3889. Small group was George Bowerman's .309. Grand agg: 1.) Bill Campbell .2898, 2.) Del Bishop .2996, 3.) George Bowerman .3800. Grand agg winner Bill Campbell, of Castle Rock, Washington fired a 6 PPC, Hall action, Hart barrel, Leupold-Siebert 30x scope, with 28.0 grains of H 4895 and 68 grain Simonson bullets.

NBRSA MATCH SCHEDULE

EASTERN REGION

CAMILLUS SPORTSMEN'S CLUB, Camillus, New York. Contact: Hank L. Gonnella, 420 Hawley Avenue, Syracuse, NY 13203. (315) 474-1746.

CHIPPEWA COUNTY SHOOTING ASSOCIATION, Sault Sainte Marie, Michigan. Contact: Joseph Haller, Rt. 1, Box 117, Nicolet Road, Sault Sainte Marie, MI 49783

CHIPPEWA RIFLE CLUB, Easton, Ohio. Contact: Mildred Spencer, 3016 Melv Drive, Barberton, OH 44203.

FAIRCHANCE GUN CLUB, Smithfield, Pennsylvania. Contact: Royce P. Leckemby, Rt. 2, Box 21, Smithfield, PA 15478. (412) 569-7973. (WARM UP MATCHES WILL BE FIRED AT ALL MATCHES).

FAIRFIELD SPORTSMAN'S CLUB, Fairfield, Ohio. Contact: Jay Fouts, 1191 Dale Road, Hamilton, OH 45013. (513) 892-1715. (WARM UP MATCHES WILL BE FIRED AT ALL MATCHES).

HOLTON GUN AND BOW CLUB, Holton, Michigan. Contact: Theodore Geldaker, Jr. 3369 Waalkes Street, Muskegon Hts., MI 49444. (616) 733-2422.

KANE FISH AND GAME CLUB, Kane, Pennsylvania. Contact: Dick Lockwood, Box 112, Kane, PA 16735. (814) 837-6216.

KELBLY'S RIFLE RANGE, Marshallville, Ohio. Contact: George Kelbly, 7222 Dalton Fox Lake Road, North Lawrence, OH 44666. (216) 683-4674. (WARM UP MATCHES WILL BE FIRED AT ALL MATCHES).

MACKINAC STRAITS SHOOTERS, St. Ignace, Michigan. Contact: Bud Hill, 11 South Boundary Road, St. Ignace, MI 49781.

McKINLEY B.R. SHOOTERS, Canton, Ohio. Contact: Harvey LaChat, 12085 Wooster Street, N.W., Massillon, OH 44646.

REED'S RUN RIFLE CLUB, Augusta, Ohio. Contact: Leora Demeter, 1907 Franklin Place, N.W., Canton, OH 44709. (216) 492-7986. (WARM UP MATCHES WILL BE FIRED AT ALL MATCHES).

SHELBY COUNTY DEER HUNTERS ASSOCIATION, Contact: Phil Jones, 414 Summit Avenue, Troy, OH 45373. (513) 339-4833. (WARM UP MATCHES WILL BE FIRED AT ALL MATCHES).

GULF COAST REGION

AUSTIN RIFLE CLUB, Austin, Texas. Contact: Frank Wilson, 4904 Rollingwood, Austin, TX 78746. (512) 327-0838.

BATON ROUGE RIFLE & PISTOL CLUB, Baton Rouge, Louisiana. Contact: Jimmie Broussard, 11785 Foster Rd., Baton Rouge, LA 70811. (504) 774-7953.

CENTRAL TEXAS BENCH REST SHOOTERS, INC., New Braunfels, Texas. Contact: Tom C. Doss, Route #2, Box 2203, Boerne, Texas 78006. Home phone (512) 249-3389. Office (512) 684-5111, Ext. 3282.

DIETZ RIFLE RANGE, New Braunfels, Texas. Contact: Howard Dietz, Star Rt. 1, Box 65, New Braunfels, TX 78130. (512) 885-4662.

FORT STOCKTON RIFLE CLUB, Ft. Stockton, Texas. Contact: Larry Baggett, 507 N. Main St., Fort Stockton, TX 79735. (915) 336-6278.

HUB CITY RIFLE AND PISTOL CLUB, Lafayette, Louisiana. Contact: Louis Langlinais, 932 Hugh Wallis Road, Lafayette, LA 70501. (318) 235-8978.

MIDLAND SHOOTERS, INC., Midland, Texas. Contact: Jef Fowler, P.O. Box 6421, Midland, TX 79701. (915) 563-4341.

NAVARRO GUN CLUB, Corsicana, Texas. Contact: Robert Hull, Box 488, Corsicana, TX 75110. (214) 872-1868

SAN ANGELO GUN CLUB, San Angelo, Texas. Contact: Buster Reed, 2409 Waco St., San Angelo, TX 76901. (915) 949-5726.

SOUTHWEST LOUISIANA RIFLE AND PISTOL CLUB, Lake Charles, Louisiana. Contact: James Neal, Jr., 1203 California St., Lake Charles, LA 70605. (318) 477-6440.

TOMBALL GUN CLUB, Houston, Texas.

Note: All Gulf Coast Region, Louisiana State and Texas State Championships are 100 Yards & 200 Yards. Three (3) minute sight-in rule will be used, except for Hunter matches and where otherwise noted.

MID-CONTINENT REGION

COLORADO BENCHREST SHOOTERS, INC., Morrison, Colorado. Contact: Dan Dowling, 10919 W. 59th Place, Arvada, CO 80004. (303) 422-6884.

KANSAS CITY MILL CREEK RIFLE CLUB, Desota, Kansas. Contact: Larry Kuse, 8112 W. 89th Street, Overland, Park, KS 66212. (913) 649-7344.

OKIE SHOOTERS, Edmond, Oklahoma. Contact: Rex Reneau, 7409 N.W. 28 Terr., Bethany, OK 73008. (405) 787-8529.

SANDHILL RIFLE AND PISTOL CLUB, Great Bend, Kansas. Contact: Steve Ochs, 3023 17th, Great Bend, KS 67530. (316) 792-2245.

SPRINGFIELD RIFLE CLUB, Springfield, Missouri. Contact: Mike Bishop, 409 South Avenue, Springfield, MO 65806. (417) 865-5790.

TULSA BENCHREST CLUB, Skiatook, Oklahoma. Contact: Wayne Blacketter, 7811 E. 2nd Street, Tulsa, OK 74112. (918) 835-5195.

WELD COUNTY FISH AND WILDLIFE ASSOCIATION, INC., Greeley, Colorado. Contact: John Ambler, 2025 Cheshire Street, Ft. Collins, CO 80526. (303) 226-5217.

REGIONAL POLICY: NO WARM UP MATCHES WILL BE FIRED. THREE MINUTES WILL BE ALLOWED PRIOR TO THE FIRST RECORD MATCH AT EACH YARDAGE TO GET ON PAPER.

MISSISSIPPI VALLEY REGION

B & R GUN CLUB, Westfield, Indiana. Contact: Bill Gwin, 2302 State Road 38 East, Westfield, IN 46074. (317) 877-3108. All matches will start at 9:00 a.m. Warm up matches WILL BE fired.

BEESON'S RIFLE RANGE, Etna Green, Indiana. Contact: Jon Leu, 860 US Hwy 30 East, #10, New Haven, IN 46774. (219) 749-9810.

BENCHREST RIFLE CLUB OF ST. LOUIS, St. Louis Missouri. Contact: Art Freund, 1038 Hornsby Avenue, St. Louis, MO 63147. (314) 388-1352. (NO WARM UP MATCHES).

EGYPTIAN RIFLE AND PISTOL CLUB, Carbondale, Illinois. Contact: Marvin Voss, RR 1, Dedar Lane 15, Carbondale, Illinois 62901.

NORTH CENTRAL REGION

ATCHINSON RIFLE CLUB, Cooperstown, North Dakota. Contact: Richard Reiten, P.O. Box 589, Cooperstown, ND 58425. (701) 797-2668.

BUFFALO RIFLE CLUB. Contact: L. Mosebar, P.O. Box 284, Story, WY 82842.

CEDAR RAPIDS BENCHREST CLUB, Cedar Rapids, Iowa. Contact: Ed Kvarda, 2406 Ellis Boulevard, N.W. Cedar Rapids, IA 52405. (319) 396-0017.

COUNCIL BLUFF RIFLE AND PISTOL CLUB, Council Bluff, Iowa. Contact: Robert Dodd, 8230 Wilson Drive, Ralston, NE 68127. (402) 331-9529.

DAKOTA BENCHREST SHOOTERS CLUB, Sioux Falls, South Dakota. Contact: Daryl Jensen, 615 South Willow Street, Sioux Falls, SD 57105. (605) 338-4118.

MINNETONKA GAME AND FISH CLUB, St. Francis, Minnesota. Contact: Don Judd, 645 20th Avenue, N.W., New Brighton, MN 55112. (612) 633-6799.

OAK HILLS GUN CLUB, Blue Grass, Iowa. Contact: James J. Bounds, 3802 26 Street, Moline, Illinois 61265. Phone (home) (309) 762-1732; (work) (309) 762-6783.

Warm-up matches will be shot at all matches. All matches start at 9:00 am. Special class factory rifles at all matches.

PRAIRIE DOG TARGET CLUB, Porcupine, South Dakota. Contact: Don Deckert, R.R., Porcupine, SD 57772. (605) 288-1919.

RIVER CITY RIFLE AND PISTOL CLUB, Mason City, Iowa. Contact: Terry Meyer, RR 1, Box 50, Thornton, Iowa 50479. (515) 998-2860.

WILTON RIFLE CLUB, Muscatine, Iowa. Contact: Dennis Shepard, 12 Debbie Avenue, Muscatine, IA 52761. (319) 264-3909.

NORTHWESTERN REGION

ENTIAT BENCH REST CLUB, #2 Canyon, Wenatchee, Washington. Contact: Bob Miller, Box 395, Entiat, WA 98822. (509) 784-1648. All matches start at 8:00 am.

LaGRANDE RIFLE AND PISTOL CLUB, LaGrande, Oregon. Contact: Greg Vergari, Rt. #4, Box 4411, LaGrande, Oregon 97850. (503) 963-0529

NAMKA BENCHREST SHOOTERS CLUB, Calgary, Alberta, Canada. Contact: Al Miroch, Box 3070, Station B, Calgary, Alberta, Canada T2M-4L6. (403) 242-5679.

PRICKLY PEAR SPORTSMEN'S ASSOCIATION, Helena, Montana. Contact: Lee Andrews, 401 S. California St., Helena, Montana 59604. (406) 442-9813.

PUGET SOUND BENCHREST RIFLE CLUB, Issaquah, Washington. Contact: Bill Crosby, P.O. Box 125; Edmonds, WA 98020. (206) 743-2477. All matches start at 9:00 am, 10:00 am on Sundays.

SNOW SHOE GUN CLUB, Kenai, Alaska. Contact: Steve Meyer, P.O. Box 125, Kenai, Alaska 99611.

TRI-COUNTY GUN CLUB, Sherwood, Oregon. Contact: Bob Scheible, 23790 S. Beatie Road, Oregon City, Oregon 97045. (503) 632-4673.

WESTERN MONTANA FISH AND GAME ASSOCIATION, Missoula, Montana. Contact: Bill Cote, 3314 Paxson, Missoula, Montana 59801. (406) 549-4719. All matches start at 9:00 am, registration at 8:30 am.

SOUTHEASTERN REGION

SOUTHEAST REGION POLICY: NO WARM UP MATCHES: 3 MINUTE SIGHT IN PERIOD AT ALL MATCHES! All will be "on paper" before the first record match is started.

ALLEGHANY COUNTY RIFLE ASSOCIATION, Sparta, North Carolina. Contact: Charles Joines, Box 306, Sparta, NC 28675. (919) 372-4847.

BUCCANEER GUN CLUB, Wilmington, North Carolina. Contact: Don Sloop, 3306 Bragg Drive, Wilmington, NC 28403. (919) 799-4627.

CENTRAL FLORIDA BENCHREST CLUB, Melbourne, Florida. Contact: James Hare, 5700 Palm Dr., Ft. Pierce, Fla. 33450. (305) 465-8782.

CHARLOTTE RIFLE & PISTOL CLUB, P.O. Box 11183, Charlotte, NC 28209.

FAYETTE COUNTY GUN CLUB, INC., P.O. Box 212, Fayette, Alabama. Contact: Charles Lahay, 131 14th Court, N.W., Fayette, AL 35555. (205) 932-3684.

GALLATIN GUN CLUB, Gallatin, Tennessee. Contact: Charles Curtiss, Rt. 4, Box 241, Sparta, Tennessee 38583. (615) 761-2765.

GREENVILLE GUN CLUB, INC., P.O. Box 123, Greenville, South Carolina. Contact: Ed Watson, 2404 Wade Hampton Boulevard, Greenville, SC 29615. (803) 244-7948. No warm-up matches. 3 minute sight in period when you go to the bench for your first record match. Everyone will be on paper before the first record shot is fired.

ISAAK WALTON BENCHREST CLUB, Rt. 5 - 300 Manakin Rd., Midlothian, Virginia 23113.

JACKSON COUNTY SHOOTING CLUB, P.O. Box 1936, Sylva, North Carolina. Contact: James Messer, Box 2, Webster, NC 28788. (704) 586-5921.

KETTLEFOOT ROD AND GUN CLUB, P.O. Box 384, Bristol, Tennessee. Contact: Claude Smith, 2325 Westfield, Bristol, VA 24201 (703) 669-6594 or J.D. Stamper (703) 889-4329.

LONG CREEK RIFLE AND PISTOL CLUB, Charlotte, North Carolina. Contact: Larry Earp, 1029 Byrum Street, Charlotte, NC 28216. (704) 399-1793.

MEMPHIS RIFLE AND REVOLVER ASSOCIATION, INC., Memphis, Tennessee. Contact: George Busby, 3387 St. Elmo, Memphis, TN 38128. (901) 372-1728.

MID-CAROLINA RIFLE CLUB, P.O. Box 814, Columbia, South Carolina. Contact: Jerry Shelton, 217 Cedar Vale Drive, Lexington, SC 29072. (803) 356-3047.

PALMETTO GUN CLUB, Charleston, South Carolina. Contact: Bruce Hillman, 6220 Murray Avenue, N (Apt 6A). Hanahan, SC 29406.

RIVER BEND GUN CLUB, P.O. Box 292, Norcross, Georgia. Contact: Joe Carlisle, 31 Swinnett Drive, Apt. C-5, Lawrenceville, GA 30245. (404) 962-4687.

ROANOKE RIFLE AND REVOLVER CLUB, P.O. Box 8252, Roanoke, Virginia. Contact: Ted Manning, R.D. 4, Box 416B, Salem, VA 24153. (703) 362-8046.

TWIN CITY RIFLE AND PISTOL CLUB, Roanoke Rapids, North Carolina. Contact: John Reber, 2306 Old Farm Road, Roanoke Rapids, NC 28780.

VOLUNTEER RIFLE AND PISTOL CLUB, Knoxville, Tennessee. Contact: Nick Young, 10816 Kingston Pike, Knoxville, TN 37922. (615) 966-7680.

WATAUGA GUN CLUB, Boone, North Carolina. Contact: Larry Isenhour, Rt. 1, Box 284A, Zionville, NC 28698. (704) 297-3963.

WYOMING ANTELOPE CLUB, Pinellas Park, Florida. Contact: John Jessip, 10900 Roosevelt Boulevard N., St. Petersburg, FL 33702. (813) 576-6675 (anytime).

SOUTHWESTERN REGION

ARIZONA BENCHREST SHOOTERS, Phoenix, Arizona. Contact: Nancy Miller, 7221 W. Angela, Peoria, Arizona 85345. (602) 979-5764.

Feb. 8 — LV

Feb. 9 — HV

Mar. 1 — Cactus Classic, LV, HV, 100 yards

Mar. 2 — Cactus Classic, HV, LV, 200 yards

Apr. 5 — LV

Apr. 6 — LV

Nov. 8 — Southwest Regionals, Sprt, LV, HV, 100 yards

Nov. 9 — Southwest Regionals, HV, LV, Sprt, 200 yards

Starting time: 8:00 a.m. Three minute sight-in.

CALIFORNIA BENCH REST SHOOTERS ASSOCIATION, Visalia, California. Contact: Dennis Thornbury, 1114 S. McAuliff Road, Visalia, CA 93277. (209) 732-4401.

CARSON RIFLE AND PISTOL CLUB, Carson City, Nevada. Contact: Dick Cundiff, 2549 Sneddon Way, Carson City, Nevada 89701. (702) 882-9115.

DESERT SPORTSMAN'S RIFLE AND PISTOL CLUB, Las Vegas, Nevada. Contact: Alan Ashby, 605 Salem Drive, Las Vegas, Nevada 89107. (702) 870-1701.

SOUTHERN UTAH BENCHREST ASSOCIATION, St. George, Utah. Contact: Rick Adams, 24 E. 750 South Street, St. George, Utah 84770.

ST. FRANCIS

Nine shooters at St. Francis, Minnesota for the heavy varmint and light varmint class match sponsored by the Minnetonka Club on August 3rd and 4th. Heavy varmint, 100 yards: 1.) Frank Brabec .3002, 2.) Dwight Fitzsimmons .3146, 3.) Jim Ley .3390. Small group, Jim Hall's .160. At 200 yards: 1.) Dwight Fitzsimmons .3374, 2.) Frank Brabec .3559, 3.) Jim Ley .3615. Small group was Frank Brabec's nice little .244. Grand agg: 1.) Dwight Fitzsimmons .3260, 2.) Frank Brabec .3280, 3.) Jim Ley .3502. Grand agg winner Dwight Fitzsimmons, of Dodgeville, Wisconsin shot a 6 PPC, 40x action, Atkinson barrel, Leupold 36x scope, 28.0 grains of H 322 with 68 grain PCBC bullets in a rifle smithed by Ferris Pindell, and stocked by McMillan. In the light varmint class 100 yards: 1.) Frank Brabec .3428, 2.) Dwight Fitzsimmons .4238, 3.) Don Judd .4452. Small group, Frank Brabec's .212. At 200 yards the conditions had obviously gone to hell in a handbasket: 1.) Ron Wyman .5192, 2.) Dwight Fitzsimmons .5198, 3.) Frank Brabec .5249. Small group, Ron Wyman .431. Grand agg: 1.) Frank Brabec .4338, 2.) Dwight Fitzsimmons .4718, 3.) Don Judd .5086. Grand agg winner Frank Brabec, of Coon Rapids, Minnesota fired a 6 PPC, Hall action, Hart barrel, Leupold 36x scope, 27.3 grains of H 322 with 68 grain PCBC bullets, in a rifle smithed and stocked by Seely Masker.

LUTHER

The Okie Shooters hosted the Mid-Continent heavy varmint regionals on June 29th. It was windy as the southwest corner of hades, and 23 shooters whimpered a lot. Still, when all was said and done, a .22 Walldog won it, and that cartridge is not generally regarded as the last of the great wind buckers. At 100 yards: 1.) Don Creach .2460, 2.) Bud Rainwater .2644, 3.) Dennis Wagner .2790. Small group was an official screamer .092 by Ron Prachyl; the history of Oklahoma benchrest shooting is not excessively crowded with official screamers. Several shooter asked to be allowed to touch the target. At 200 yards: 1.) Ron Prachyl .3798, 2.) Red Cornelison .3802, 3.) David Mann .3850. Small group was David Mann's .431. Grand agg: 1.) Bud Rainwater .3264, 2.) Ron Prachyl .3376, 3.) Dennis Wagner .3486. Grand agg winner Bud Rainwater, of Bartlesville, Oklahoma fired a .22 Walldog, Williams (Benchmaster) action, Hart barrel, Lyman 30x scope, 26.5 grains of BLC-1, with Berger 52 grain bullets, in a rifle smithed by Dennis Wagner, and stocked by Rex Reneau.

There was a three gun trophy given for this match plus the light varmint and sporter regionals fired previously. Top three: 1.) Dennis Wagner .3253, 2.) Bud Rainwater .3325, 3.) Rex Reneau .3430.

HOLMWOOD

The weather was hot in Holmwood, Louisiana on August 18th. So was the competition in a 20 shooter heavy varmint class match. At 100 yards: 1.) Don Geraci .1998, 2.) Jimmie Broussard .2334, 3.) Louis Langlins .2508, 4.) Marcy Lyons .2768, 5.) E.M. Baggett .2820. Small group was an official screamer .093 from the muzzle of Jimmie Broussard's gun. At 200 yards: 1.) Rusty Fung .2570, 2.) Louis Langlins .2644, 3.) Eric Matherne .2973, 4.) Jimmie Broussard .2982, 5.) Ralph Council .3083. Small group went to Louis Langlins for his .292. Grand agg: 1.) Don Geraci .2552, 2.) Louis Langlins .2576, 3.) Jimmie Broussard .2658, 4.) Rusty Fung .2789, 5.) Marcy Lyons .3047. Grand agg winner Don Geraci, of Metairie, Louisiana fired a 6 PPC, Hart action, Hart barrel, Leupold 36x scope, and 27.0 grains of T 322 with 68 grain Euber bullets.

TEXAS STATE CHAMPIONSHIPS

The 1985 Texas State Three Gun Championship was won by a new shooter, Howard Dietz, from New Braunfels, Louisiana!!! Howard shot the same rifle in all three classes. It is a 6PPC on a Remington 40X Action (unsleeved) with a Hart barrel. It was stocked and smithed by Howard. His load was 26.5 grains of T322 with Berger 68 grain bullets. It is indeed unusual for a Louisiana shooter to win a Texas Championship under "less than ideal" Texas conditions.

1. Howard Dietz	.3583
2. T.J. Jackson	.3720
3. B.J. Green	.3786
4. Leon Gass	.3845
5. Frank Wilson	.3876
6. Gary Sandlin	.4601
7. Cliff Styles	.4062
8. John Horn	.4107
9. Kenneth McIntyre	.4219
10. Harold Henderson	.4231

The 1985 State Four Gun Champion is Leon Gass from "Marlboro Country", Monahans, Texas. B.J. Green and Cliff Styles were right behind him. They came on like "gang busters" at the end of the season. In the light gun, Leon used a 6PPC, sleeved Remington 700 Action with Hart Barrel. His load was 51 Culver with T322 and 65 grain Gass-Simonson bullets. It was smithed by T.J. Jackson and stocked by him. His heavy varmint is a 6PPC on a Shilen DGA Action with Shilen barrel. It was stocked and smithed by Larry "Who" Baggett. His load was 50 Culver T322 with a 65g Gass-Simonson bullets. The unrestricted gun uses a Remington 600 Action with the Shilen barrel being chambered by Harold Broughton in a .240 Long Coyote. It has an extra long howl!!! Actually, the case is a shortened improved 6PPC on the Sako case. It is a "return to battery" rig made by Leon out of aluminum plates and rods. His load was 49 Culver of Hodgdon 322 with his bullets.

1. Leon Gass	.3775
2. B.J. Green	.3821
3. Cliff Styles	.3888
4. Howard Dietz	.3923
5. T.J. Jackson	.3932
6. John Horn	.3977
7. Frank Wilson	.4136
8. Kenneth McIntyre	.4263
9. Robert Mosely	.4463
10. Jack Gottfredson	.4509

CHARLOTTE

On November 9th and 10th the Long Creek Rifle and Pistol Club hosted 40 shooters in the Regional Championships for Light Varmint and Sporter. The weather was great with some light tricky winds and Jeff Fowler found it very much to his liking. Jeff, who has just returned to the Southeast Region after serving a five year sentence in Midlands made his return a triumphant one by winning both guns. Things started off Saturday morning with Light Varmint 200 yds., 1.) Faye Boyer .2460, 2.) Jeff Fowler .2527, 3.) Gary Faulk .2739, 4.) Nat Britchett .2759, 5.) Tony Boyer .2848. Small Group Jeff Fowler .225. The Light Varmint 100 yds. was shot Sunday at noon with the following results, 1.) Jeff Fowler .2202, 2.) David Brooks .2476, 3.) Faye Boyer .2662, 4.) James Messer .2732, 5.) Larry Earp .2894. Small Group Miles Gibby .155. In the Light Varmint Grand, Jeff Fowler won handily with a .2364, 2.) Faye Boyer .2561, 3.) David Brooks .2728, 4.) Nat Britchett .2870, 5.) Larry Earp .2907, 6.) Tony Boyer .2914, 7.) Ted Manning .2978, 8.) Gary Faulk .3040, 9.) James Coffey .3182, 10.) Charlie Joines .3190. Jeff, now of Charlotte, N.C., shot a 6PPC, Hall action, Hart barrel, Leupold 36X scope with 28 gr. of H 322 behind Fowler 66 grain bullets in a gun smithed by Broughton and stocked by Sinclair. Now back to Saturday with the Sporter 200 yd. 1.) Jeff Fowler .3490, 2.) Tony Boyer .3613, 3.) Tom Van Landingham .3646, 4.) Charlie Joines .3674, 5.) David Brooks .3817. Small group Tony Boyer .370. At 100 yds. it was Mike Lucas who found something he liked out there and won with a fine .2444, followed by 2.) James Messer .2538, 3.) Ted Manning .2690, 4.) Nat Britchett .2776, 5.) Jeff Fowler .2838. Small Group went to Charlie Joines with an "Official Screamer" .090. In the Sporter Grand it was Jeff again with a .3164 followed by 2.) Mike Lucas .3250, 3.) Tony Boyer .3362, 4.) Charlie Joines .3387, 5.) David Brooks .3413, 6.) Tom Van Landingham .3458, 7.) Ted Manning .3482, 8.) James Messer .3524, 9.) James Coffey .3575, 10.) Faye Boyer .3595. Jeff shot the same gun here as in Light Varmint. There wasn't any doubt about the winner of the Two Gun, Jeff Fowler by a wide margin. He was followed by David Brooks .3070 who just edged out third place Faye Boyer .3078, 4.) Tony Boyer .3138, 5.) Ted Manning .3230, 6.) Charlie Joines .3288, James Coffey .3333, 8.) Tom Van Landingham .3424, 9.) Larry Earp .3477, 10.) Jeff Summers .3568. After the shooting was over, an informal meeting was held and it was decided that

if Jeff didn't slack off a little, we would take up a collection and ship him to the the I.B.S. Sending him back to Midlands was suggested but they decided that would constitute cruel and unusual punishment. An interesting note for the followers of the new 30-30 cases, Nick Young's WASP shot the winning agg. in Sporter 200 yd. but was not officially placed because the gun was shot by two different shooters.

Submitted by:
Tom Van Landingham

MISSOULA

Bill Cote continued his winning streak at Western hunter class matches, beating 15 other competitors at the Missoula, Montana range on August 4th.

At 100 yards: 1.) Bill Cote 248-10x, 2.) Lee Andrews 248-7x, 3.) Paul Williams 246-10x, 4.) Jen Cote 245-8x. At 200 yards: 1.) Bill Cote 244-7x, 2.) Paul Williams 244-3x, 3.) Lee Andrews 241-3x, 4.) Ted Whitehall 239-1x. Grand agg: 1.) Bill Cote 492-17x, 2.) Paul Williams 490-13x, 3.) Lee Andrews 489-9x, 4.) Bob Fritz 482-7x, 5.) Ted Whitehall 480-3x. Grand agg winner Bill Cote, of Missoula, Montana fired a .308, Remington 700 action, Hart barrel, Weaver KT-6 scope, 45.7 grains of H 380 with 168 grain Sierra bullets, in a rifle smithed by Erhardt, and stocked by himself.

BLUEGRASS

The Oak Hills Gun Club, at Bluegrass, Iowa hosted seven shooters for a 200 yard match and light varmint classes on August 11th.

Heavy varmint class: 1.) Tom Hexum .2832, 2.) Ralph Judd .3049, 3.) Ken Rossing .4007. Agg winner Tom Hexum of Maplewood, Minnesota fired a .222, sleeved XP-100 action, JBC barrel, Leupold-Siebert 30x scope, 21.0 grains of BR 28 powder PCDC bullets, in a rifle smithed by Fred Sinclair, and stocked by himself. Small group was Dennis Shepard's .311.

Light varmint class: 1.) Bob Parker .3420, 2.) Tom Hexum .3920, 3.) Ken Rossing .3948. Agg winner Bob Parker, of Chicago, Illinois fired a 6 PPC, 40x action, Sinclair barrel (Fred, have you started something new that I don't know about?), Leupold 36x scope, an unspecified amount of H 322 with Metzger bullets, in a rifle smithed and stocked by Fred Sinclair.

Two gun results: 1.) Tom Hexum .3276, 2.) Ralph Judd .3653, 3.) Bob Parker .3843.

BACK ISSUES

Now available — 1-3 issues \$2.00, 4-11 issues \$1.50 each, 12 or more \$1.00 each. Write James Hart, R.D. 3, Lafayette, N.Y. 13084. Make checks payable to Precision Shooting.

NBRSA TARGETS

Stock Number	Description	Price
BR-100	100 yard benchrest target	\$ 40.00 per 1,000
BR-200	200 yard benchrest target	\$ 40.00 per 1,000
BR-300	300 yard benchrest target	\$160.00 per 1,000
HBR-100	100 yard hunter target	\$ 70.00 per 1,000
HBR-200	200 yard hunter target	\$ 70.00 per 1,000
HBR-300	300 yard hunter target	\$160.00 per 1,000

Prices shown are F.O.B. Barberton, Ohio

Order from: Stella Buchtel, 5735 Sherwood Forest Drive
Akron, Ohio 44319

VISALIA

Twenty four shooters were at the Visalia, California range on June 8th and 9th for the perennially 10½ and 13½ pound varmint rifle classes. Temperatures were in the mid-90s, with just enough wind to move the mirage . . . and mirage was indeed there.

In the light varmint class, Ivan Walker, who hasn't fired in a match in twelve years, won the grand agg going away. Just goes to show you what a little rest will do for a fellow. At 100 yards: 1.) Ivan Walker .2260, 2.) Sam Kurtovich .2380, 3.) Bill Ramsey .2424, 4.) Gene DeLoney .2436. Bill Ramsey grabbed small group honors with an official screamer .099. At 200 yards: 1.) Spencer Zootis .2603, 2.) Walt Berger .2920, 3.) Ivan Walker .2921, 4.) Bill Mellor .3007. Small group was Ivan Walker's .240. Grand agg: 1.) Ivan Walker .2591, 2.) Bill Mellor .2920, 3.) Spencer Zootis .3016, 4.) Arlene Guthrie .3207. Grand agg winner Ivan Walker, of Fremont, California fired a 6 PPC, Hall action, Hart barrel, Leupold 36x scope, 27.5 grains of H 322 with Snow 68 grain bullets, in a rifle smithed by Mel lwatsubo, and stocked by Lee Six.

Heavy varmint class, 100 yards: 1.) Fred Sattler .2326, 2.) Harvey Miller .2730, 3.) Sam Kurtovich .2802, 4.) Walt Berger .2842. Small group, Bill Stephens .148. At 200 yards: 1.) Stu Harvey .2507, 2.) Fred Sattler .2756, 3.) Walt Berger .2784, 4.) Lee Six .2986. Small group, Stu Harvey .285.

Grand agg: 1.) Fred Sattler .2541, 2.) Walt Berger .2813, 3.) Lee Six .2997, 4.) Stu Harvey .3030. Grand agg winner Fred Sattler, of Fresno, California fired a .22 PPS (shortened PPC), Hall action, Shilen barrel, Leupold 36x scope, 25.0 grains of H 4895, with 52 grain Berger bullets, in a rifle smithed and stocked by himself.

ENTIAT

The Entiat (Washington) club had their three gun standing record for the hunter class grand agg wiped out on August 10th by Bill Cote's 497-15, which was enough to beat out 16 other shooters.

At 100 yards: 1.) Jim Fugeta 249-12x, 2.) Bill Cote 249-9x, 3.) Steve Kostanich 249-7x, 4.) Stan Johnson 248-11x, 5.) Jennifer Cote 248-9x. At 200 yards: 1.) Bill Cote 248-6x, 2.) Steve Kostanich 245-3x, 3.) Vern Johnson 240-6x, 4.) Bob Whitehall 240-2x, 5.) Jennifer Cote 240-2x. Grand agg: 1.) Bill Cote 497-15x, 2.) Steve Kostanich 494-10x, 3.) Vern Johnson 488-13x, 4.) Jennifer Cote 488-11x, 5.) Stan Johnson 486-16x. Grand agg winner Bill Cote, of Missoula, Montana fired a .308, Remington action, Hart barrel, Weaver KT 6 scope, 45.7 grains of H 380 and Sierra 168 grain bullets, in a rifle smithed by Erhardt, and stocked by himself.

PORCUPINE

The Prairie Dog Target Club, on August 10th and 11th, out there in Porcupine, South Dakota hosted the Regionals in heavy varmint class, with 17 shooters participating. Furthermore, in the interests of wearing out barrels, they duked it out at 100, 200 and 300 yards. This merely makes the editors job harder, and clubs running these matches promptly end up in the editor's dog house. A plague upon your house, Deckert! Don't bother sending me a Prairie Dog Target Club calendar this year . . . I'll send it back. Mutilated.

Now, with the personal invective out of the way, we'll get on to the match. And the goings-on of the grand agg winner, Ed Reiten, brought me back to the 1968 era of benchrest. In those days, you don't show up at a match with just your .222 heavy varmint rifle . . . you had a .308 heavy varmint in the car trunk, in case the wind started up . . . whereupon you promptly hauled out the heavy artillery. I'll be darned . . . that's just what Ed Reiten did . . . in the year 1985 . . . and he won the Regionals. Wonderful, . . . I just know that we were right, back there in 1968!

At 100 yards: 1.) Bob Schneider .2420, 2.) Bill Pond .2716, 3.) Jim Smola .2768, 4.) Don Deckert .3148, 5.) Bob Dodd .3374. Small group honors were a tie between Jim Smola and Don Deckert, each of whom fired a .152. At 200 yards is when Mr. Reiten hauled out the .308: 1.) Ed Reiten .4475, 2.) Donley Darnell .4640, 3.) Dick Howard .5973, 4.) Butch Kimmell .6140, 5.) Bob Schneider .6884. Small group was Donley Darnell's .505. At 300 yards: 1.) Don Deckert .4395, 2.) Dan Dowling .5319, 3.) Duane Kudlock .5761, 4.) Mel Klasi .5797, 5.) Vernon Seeley .5977. Small group, Don Deckert .637.

Grand agg: 1.) Ed Reiten .4885, 2.) Donley Darnell .5245, 3.) Bill Pond .5264, 4.) Bob Schneider .5292, 5.) Dick Howard .5328. In the equipment category, at 100 yards Ed Reiten fired a 6 PPC. At the two longer yardages, a .308, Hart action, McMillan barrel, Leupold 36x scope, 41.0 grains of H 4895 with Sierra 168 grain bullets, in a rifle smithed and stocked by himself.

MEMBERSHIP IN NBRSA

The cost of NBRSA Membership is only \$25.00 including a subscription to PRECISION SHOOTING. Associate Memberships are available only to the spouses and children under 18 of current NBRSA members, cost \$5.00 per year and includes all privileges except receipt of PRECISION SHOOTING. Outside the U.S. and Canada: Surface mail - \$37.50. Air Mail \$55.00

Send your check and application (which need not be on an official form) to Mrs. Stella Buchtel, Secretary NBRSA, 5735 Sherwood Forest Drive, Akron, Ohio 44319.

NAME _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____